

=>

Uploading C:\Documents and Settings\jlau1\My Documents\10764989 - photolabile
PG\benzophenone.str

L1 STRUCTURE UPLOADED

=> s l1 sss sam

SAMPLE SEARCH INITIATED 09:28:59 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 16 TO ITERATE

100.0% PROCESSED 16 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 80 TO 560

PROJECTED ANSWERS: 1 TO 80

L2 1 SEA SSS SAM L1

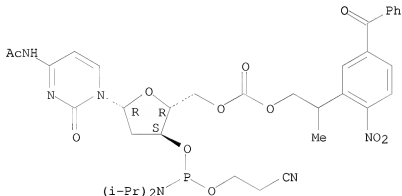
=> d l2 scan

L2 1 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN Cytidine, N-acetyl-2'-deoxy-, 5'-[2-(5-benzoyl-2-nitrophenyl)propyl
carbonate] 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI)

MF C37 H45 N6 O11 P

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> s l1 sss full

FULL SEARCH INITIATED 09:29:14 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 241 TO ITERATE

100.0% PROCESSED 241 ITERATIONS

44 ANSWERS

SEARCH TIME: 00.00.01

L3 44 SEA SSS FUL L1

=> b caplus		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	178.36	178.57

FILE 'CAPLUS' ENTERED AT 09:29:18 ON 30 APR 2008
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FILE COVERS 1907 - 30 Apr 2008 VOL 148 ISS 18
FILE LAST UPDATED: 29 Apr 2008 (20080429/ED)

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=> s l3
L4 20 L3

=> s l4 and py<=2002
22929873 PY<=2002
L5 13 L4 AND PY<=2002

=> s l5 and (photo? or caged or protect?)
1572300 PHOTO?
4566 CAGED
679039 PROTECT?
L6 0 L5 AND (PHOTO? OR CAGED OR PROTECT?)

=> s l5 and nucleo?
787140 NUCLEO?
L7 3 L5 AND NUCLEO?

=> s l7 scan
MISSING OPERATOR L7 SCAN
The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> d l7 scan

L7 3 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN
CC 35-5 (Chemistry of Synthetic High Polymers)

TI Synthesis of poly(arylene ether ketone)s containing amide side groups via nitro displacement reaction

ST polyether polyketone prepn dinitro monomer diol

IT Polyketones
Polyketones
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(polyether-; preparation via nitro displacement reaction and properties of poly(arylene ether ketone)s containing amide side groups)

IT Polyethers, preparation
Polyethers, preparation
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(polyketone-; preparation via nitro displacement reaction and properties of poly(arylene ether ketone)s containing amide side groups)

IT 220114-44-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(monomer; preparation dinitro monomer for synthesis of poly(arylene ether ketone)s containing amide side groups)

IT 2516-95-2, 5-Chloro-2-nitrobenzoic acid 153088-92-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation dinitro monomer for synthesis of poly(arylene ether ketone)s containing amide side groups)

IT 220114-40-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation dinitro monomer for synthesis of poly(arylene ether ketone)s containing amide side groups)

IT 220114-47-6P 220114-50-1P 220114-52-3P 220114-53-4P
220114-54-5P 220114-55-6P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation via nitro displacement reaction and properties of poly(arylene ether ketone)s containing amide side groups)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L7 3 ANSWERS CAPLUS COPYRIGHT 2008 ACS ON STN

CC 25-20 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
Section cross-reference(s): 22, 23

TI Reactions of organic anions. Part 110. Vicarious nucleophilic substitution of hydrogen in nitroarenes with α -substituted nitriles and esters. Direct α -cyanoalkylation and α -carbalkoxyalkylation of nitroarenes

ST vicarious nucleophilic substitution nitroarene; cyanoalkylation nitroarene; carbalkoxyalkylation nitroarene; nitroarene cyanoalkylation carbalkoxyalkylation; alkylation cyano carbalkoxy nitroarene; alkanenitrile chloro oxy thio anion; chloroalkanenitrile anion reaction; oxyalkanenitrile anion reaction; thioalkanenitrile anion reaction; alkanecarboxylate thio anion reaction

IT Regiochemistry
(in vicarious nucleophilic substitution of hydrogen in nitroarenes with substituted nitriles and esters)

IT Substitution reaction, nucleophilic
(vicarious, of hydrogen in nitroarenes with substituted nitriles and esters)

IT Alkylation
(alkoxycarbonyl-, of nitroarenes by vicarious nucleophilic substitution of hydrogen with substituted esters)

IT Alkylation

(cyano-, of nitroarenes by vicarious *nucleophilic* substitution of hydrogen with substituted nitriles)

IT 89278-25-1
RL: PROC (Process)
(conversion of, to nitronaphthalenacetonitrile)

IT 72301-66-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and decyanation of)

IT 89278-18-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrolysis of)

IT 89278-27-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reduction and acetylation of)

IT 89278-00-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and C-methylation of)

IT 555-21-5P 610-66-2P 2945-08-6P 7599-05-5P 22908-29-8P
29704-38-9P 50712-63-5P 72301-65-6P 72301-67-8P 72301-68-9P
72301-69-0P 72301-70-3P 77158-79-3P 80199-01-5P 81310-40-9P
81327-28-8P 85397-18-8P 86981-07-9P 87081-90-1P 89277-98-5P
89277-99-6P 89278-01-3P 89278-02-4P 89278-03-5P 89278-04-6P
89278-05-7P 89278-06-8P 89278-09-1P 89278-10-4P 89278-11-5P
89278-12-6P 89278-13-7P 89278-14-8P 89278-17-1P 89278-19-3P
89278-20-6P 89278-21-7P 89278-22-8P 89278-23-9P
89278-24-0P 89278-26-2P 89278-28-4P 89302-15-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

IT 107-14-2 1617-17-0 3598-14-9 5219-61-4 13031-13-5 17277-58-6
27888-12-6 32121-27-0 33695-43-1 35928-65-5 61540-35-0
63006-68-8 70477-21-3 72301-64-5 89278-07-9 89278-08-0
89278-15-9 89278-16-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(vicarious *nucleophilic* substitution of hydrogen of nitroarene by)

IT 88-73-3 91-23-6 92-93-3 100-17-4 100-29-8 350-46-9 701-57-5
1493-27-2 3282-56-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(vicarious *nucleophilic* substitution of hydrogen of, by nitrile anions)

IT 86-57-7 98-95-3, reactions 100-00-5 121-73-3 952-97-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(vicarious *nucleophilic* substitution of hydrogen of, by nitrile or ester anions)

IT 1144-74-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(vicarious *nucleophilic* substitution of hydrogen of, ester anions)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L7 3 ANSWERS CAPLUS COPYRIGHT 2008 ACS ON STN
CC 25-16 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
TI Reactions of organic anions. Part 163. Reactions of nitrobenzophenones

with carbanions containing leaving groups. Vicarious nucleophilic substitution of hydrogen versus Darzens or the Wittig-Horner reactions

ST nitrobenzophenone reaction carbanion leaving group; nucleophilic substitution nitrobenzophenone; Darzens reaction nitrobenzophenone carbanion; Wittig Horner reaction nitrobenzophenone carbanion

IT Carbanions
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with nitrobenzophenones)

IT Ring closure and formation
(Darzens, of nitrobenzophenones with carbanions containing leaving groups)

IT Wittig reaction
(Horner, of nitrobenzophenones with carbanions containing leaving groups)

IT Substitution reaction, nucleophilic
(vicarious, in carbanion reactions with nitrobenzophenones)

IT 79482-00-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(bromination of)

IT 119657-21-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrolysis of)

IT 94514-35-9P 94514-36-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and methylation of)

IT 119657-16-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with di-Ph disulfide)

IT 119657-20-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with nitrobenzophenone)

IT 119657-22-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and substitution reactions of)

IT 41865-47-8P 69709-36-0P 94514-33-7P 94514-34-8P 94514-37-1P
119656-97-2P 119656-98-3P 119656-99-4P 119657-00-0P 119657-01-1P
119657-02-2P 119657-03-3P 119657-04-4P 119657-05-5P 119657-06-6P
119657-07-7P 119657-08-8P 119657-09-9P 119657-10-2P 119657-11-3P
119657-12-4P 119657-13-5P 119657-14-6P 119657-15-7P 119657-17-9P
119657-18-0P 119657-19-1P 119657-23-7P 119657-24-8P 119657-25-9P
119657-26-0P 119679-95-7P 119679-96-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

IT 882-33-7, Diphenyl disulfide
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with benzylphosphonate derivative)

IT 1144-74-7, p-Nitrobenzophenone 2243-79-0, o-Nitrobenzophenone
2243-80-3, m-Nitrobenzophenone
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with carbanions containing leaving groups)

IT 107-14-2 3167-63-3 3598-14-9 5219-61-4 5533-31-3 7205-98-3
13557-25-0 15296-86-3 19169-90-5 31540-74-6 33695-43-1
38066-16-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with nitrobenzophenone)

IT 350-46-9, p-Fluoronitrobenzene
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with phenyl(tetrahydropyranoxy)acetonitrile)

ALL ANSWERS HAVE BEEN SCANNED

=> b marpat

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	11.56	190.13

FILE 'MARPAT' ENTERED AT 09:30:36 ON 30 APR 2008
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FILE CONTENT: 1961-PRESENT VOL 148 ISS 17 (20080425/ED)

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DE	102006042075	06	MAR	2008
EP	1897532	12	MAR	2008
JP	2008063644	21	MAR	2008
WO	2008035998	27	MAR	2008
GB	2441396	05	MAR	2008
FR	2904973	22	FEB	2008
RU	2320708	27	MAR	2008
CA	2557401	25	FEB	2008

Expanded G-group definition display now available.

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=> d his

(FILE 'HOME' ENTERED AT 09:28:28 ON 30 APR 2008)

FILE 'REGISTRY' ENTERED AT 09:28:44 ON 30 APR 2008

L1	STRUCTURE UPLOADED
L2	1 S L1 SSS SAM
L3	44 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 09:29:18 ON 30 APR 2008

L4	20 S L3
L5	13 S L4 AND PY<=2002
L6	0 S L5 AND (PHOTO? OR CAGED OR PROTECT?)
L7	3 S L5 AND NUCLEO?

FILE 'MARPAT' ENTERED AT 09:30:36 ON 30 APR 2008

=> s l3 sss sam

SAMPLE SEARCH INITIATED 09:30:47 FILE 'MARPAT'

SAMPLE SCREEN SEARCH COMPLETED - 1816 TO ITERATE

100.0% PROCESSED 1816 ITERATIONS

50 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.02

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 33913 TO 38727

PROJECTED ANSWERS: 1658 TO 2942

L8 50 SEA SSS SAM L1

=> d l8 scan

L8 50 ANSWERS MARPAT COPYRIGHT 2008 ACS on STN

IC ICM A61K

CC 27-7 (Heterocyclic Compounds (One Hetero Atom))

Section cross-reference(s): 1, 63

TI Preparation of oxoisoindolinyphenylpropanoates and its analogs for the treatment of spinal muscular atrophy and other uses

ST oxoisoindolinyphenylpropanoate prepn spinal muscular atrophy treatment SMN expression increase; isoindolinyphenylpropanoate prepn spinal muscular atrophy treatment SMN expression increase; EAAT2 expression increase oxoisoindolinyphenylpropanoate prepn; antitumor oxoisoindolinyphenylpropanoate prepn

IT Nervous system, disease
(Huntington's chorea; preparation of oxoisoindolinyphenylpropanoates and its analogs for the treatment of spinal muscular atrophy and other uses)

IT Proteins
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(SMN1 (survival motor neuron 1), increasing SMN expression; preparation of oxoisoindolinyphenylpropanoates and its analogs for the treatment of spinal muscular atrophy and other uses)

IT Nervous system, disease
(degeneration; preparation of oxoisoindolinyphenylpropanoates and its analogs for the treatment of spinal muscular atrophy and other uses)

IT Amino acids, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(excitatory, increasing the expression of excitatory amino acid transporter (EAAT2) in a cell; preparation of oxoisoindolinyphenylpropanoates and its analogs for the treatment of spinal muscular atrophy and other uses)

IT Alzheimer's disease
Amyotrophic lateral sclerosis
Anti-Alzheimer's agents
Anticonvulsants
Antidiabetic agents
Antiparkinsonian agents
Antitumor agents
Cystic fibrosis
Diabetes mellitus
Epilepsy
Human
Multiple sclerosis

Muscular dystrophy
Neoplasm
Parkinson's disease
Spinal muscular atrophy
Stroke

(preparation of oxoisindolinyphenylpropanoates and its analogs for the treatment of spinal muscular atrophy and other uses)

IT Carboxylic acids, preparation

Esters, preparation

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of oxoisindolinyphenylpropanoates and its analogs for the treatment of spinal muscular atrophy and other uses)

IT Central nervous system, disease

(trauma; preparation of oxoisindolinyphenylpropanoates and its analogs for the treatment of spinal muscular atrophy and other uses)

IT 950734-69-7P 950737-41-4P 950738-53-1P 950739-55-6P 950741-77-2P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of oxoisindolinyphenylpropanoates and its analogs for the treatment of spinal muscular atrophy and other uses)

IT 4778-84-1P 33886-48-5P 36690-95-6P 36691-00-6P 36691-11-9P
50712-22-6P 50712-29-3P 50712-30-6P 50712-31-7P 50712-32-8P
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50712-48-6P 53086-13-8P 53086-14-9P 54627-51-9P 60025-40-3P
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950739-04-5P	950739-05-6P	950739-06-7P	950739-07-8P	

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)

(preparation of oxoisindolinylphenylpropanoates and its analogs for the
treatment of spinal muscular atrophy and other uses)

IT	950739-08-9P	950739-09-0P	950739-10-3P	950739-11-4P	950739-13-6P
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	950739-45-4P	950739-46-5P	950739-48-7P	950739-49-8P	950739-50-1P
	950739-52-3P	950739-54-5P	950739-57-8P	950739-58-9P	950739-60-3P
	950739-61-4P	950739-63-6P	950739-65-8P	950739-66-9P	950739-67-0P
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	950739-81-8P	950739-82-9P	950739-83-0P	950739-85-2P	950739-87-4P
	950739-89-6P	950739-93-2P	950739-97-6P	950739-98-7P	950739-99-8P
	950740-00-8P	950740-01-9P	950740-02-0P	950740-03-1P	950740-04-2P
	950740-05-3P	950740-06-4P	950740-07-5P	950740-08-6P	950740-09-7P
	950740-10-0P	950740-11-1P	950740-13-3P	950740-14-4P	950740-15-5P
	950740-16-6P	950740-17-7P	950740-18-8P	950740-19-9P	950740-20-2P
	950740-21-3P	950740-22-4P	950740-23-5P	950740-24-6P	950740-25-7P
	950740-27-9P	950740-28-0P	950740-29-1P	950740-30-4P	950740-31-5P
	950740-32-6P	950740-33-7P	950740-34-8P	950740-36-0P	950740-38-2P
	950740-41-7P	950740-43-9P	950740-45-1P	950740-47-3P	950740-49-5P
	950740-51-9P	950740-52-0P	950740-54-2P	950740-56-4P	950740-58-6P
	950740-60-0P	950740-62-2P	950740-64-4P	950740-65-5P	950740-67-7P
	950740-69-9P	950740-70-2P	950740-71-3P	950740-72-4P	950740-74-6P
	950740-75-7P	950740-76-8P	950740-77-9P	950740-78-0P	950740-79-1P
	950740-80-4P	950740-81-5P	950740-82-6P	950740-83-7P	950740-84-8P
	950740-85-9P	950740-86-0P	950740-88-2P	950740-89-3P	950740-90-6P
	950740-91-7P	950740-92-8P	950740-93-9P	950740-94-0P	950740-95-1P
	950740-96-2P	950740-97-3P	950740-98-4P	950740-99-5P	950741-00-1P
	950741-02-3P	950741-04-5P	950741-05-6P	950741-06-7P	950741-08-9P
	950741-09-0P	950741-10-3P	950741-11-4P	950741-12-5P	950741-13-6P
	950741-14-7P	950741-15-8P	950741-16-9P	950741-17-0P	950741-19-2P
	950741-20-5P	950741-21-6P	950741-22-7P	950741-23-8P	950741-27-2P
	950741-31-8P	950741-33-0P	950741-34-1P	950741-35-2P	950741-37-4P
	950741-38-5P	950741-39-6P	950741-40-9P	950741-41-0P	950741-42-1P
	950741-43-2P	950741-44-3P	950741-45-4P	950741-46-5P	950741-48-7P
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	950741-54-5P	950741-55-6P	950741-56-7P	950741-57-8P	950741-58-9P
	950741-60-3P	950741-61-4P	950741-62-5P	950741-63-6P	950741-64-7P
	950741-65-8P	950741-66-9P	950741-67-0P	950741-68-1P	950741-69-2P
	950741-70-5P	950741-71-6P	950741-72-7P	950741-73-8P	950741-74-9P
	950741-75-0P	950741-76-1P	950741-79-4P	950748-70-6P	

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of oxoisindolinyphenylpropanoates and its analogs for the treatment of spinal muscular atrophy and other uses)

IT 99-88-7, 4-Isopropylaniline 452-86-8, 4-Methylbenzene-1,2-diol
1975-52-6, 2-Methyl-5-nitrobenzoic acid 2417-73-4, Methyl
2-(bromomethyl)benzoate 7499-06-1, 5-Chloro-2-methylbenzoic acid
7547-97-9 19910-33-9, 2-(4-Nitrophenyl)propanoic acid 217493-65-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of oxoisindolinyphenylpropanoates and its analogs for the treatment of spinal muscular atrophy and other uses)

IT 7335-32-2P 33632-35-8P 34265-55-9P 56427-54-4P 56427-55-5P
89278-22-8P 124358-24-3P 359629-91-7P 595570-58-4P 724791-20-2P
924871-41-0P 950741-84-1P 950741-85-2P 950741-86-3P 950741-87-4P
950741-88-5P 950741-90-9P

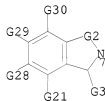
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of oxoisindolinyphenylpropanoates and its analogs for the treatment of spinal muscular atrophy and other uses)

MSTR 1



G1 = 7



G21 = 178

¹⁷⁸C(0)G22

G22 = Ph (opt. substd.)

G26 = alkoxy <containing 1-4 C>

G29 = alkyl <containing 1-8 C>

(opt. substd. by 1 or more G26)

G30 = NO2

Patent location:

claim 1

Note:

substitution is restricted

Note:

dihydro and tetrahydro analogs of G1 thieno-,

Note: pyrido-, and cyclohexano-fused rings also claimed
additional fused ring formation also claimed

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L8 50 ANSWERS MARPAT COPYRIGHT 2008 ACS on STN
NCL 514352000
CC 27-16 (Heterocyclic Compounds (One Hetero Atom))
Section cross-reference(s): 1, 63
TI Preparation of substituted biaryl-carboxylates as bradykinin B1
antagonists or inverse agonists
ST biarylcarboxylate prepn bradykinin B1 antagonist inverse agonist analgesic
antiinflammatory
IT Bradykinin receptors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(B1; preparation of substituted biaryl-carboxylates as bradykinin B1
antagonists or inverse agonists for treatment and prevention of pain
and inflammation)
IT Analgesics
Anti-inflammatory agents
Human
Inflammation
Pain
(preparation of substituted biaryl-carboxylates as bradykinin B1 antagonists
or inverse agonists for treatment and prevention of pain and
inflammation)
IT 890300-28-4P 890300-32-0P 890301-63-0P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic
preparation); THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of substituted biaryl-carboxylates as bradykinin B1 antagonists
or inverse agonists for treatment and prevention of pain and
inflammation)
IT 888486-59-7P 888486-60-0P 890300-23-9P 890300-25-1P 890300-27-3P
890300-29-5P 890300-31-9P 890300-34-2P 890300-36-4P 890300-37-5P
890300-38-6P 890300-39-7P 890300-40-0P 890300-41-1P 890300-42-2P
890300-43-3P 890300-44-4P 890300-45-5P 890300-46-6P 890300-47-7P
890300-48-8P 890300-49-9P 890300-50-2P 890300-51-3P 890300-52-4P
890300-53-5P 890300-54-6P 890300-55-7P 890300-56-8P 890300-57-9P
890300-58-0P 890300-59-1P 890300-60-4P 890300-61-5P 890300-62-6P
890300-63-7P 890300-64-8P 890300-65-9P 890300-66-0P 890300-67-1P
890300-68-2P 890300-69-3P 890300-70-6P 890300-71-7P 890300-72-8P
890300-74-0P 890300-75-1P 890300-76-2P 890300-77-3P 890300-78-4P
890300-79-5P 890300-80-8P 890300-81-9P 890300-82-0P 890300-83-1P
890300-84-2P 890300-85-3P 890300-86-4P 890300-87-5P 890300-88-6P
890300-89-7P 890300-90-0P 890300-91-1P 890300-92-2P 890300-93-3P
890300-94-4P 890300-95-5P 890300-96-6P 890300-97-7P 890300-98-8P
890300-99-9P 890301-00-5P 890301-01-6P 890301-02-7P 890301-03-8P
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890301-09-4P 890301-10-7P 890301-11-8P 890301-12-9P 890301-13-0P
890301-14-1P 890301-15-2P 890301-16-3P 890301-17-4P 890301-18-5P
890301-19-6P 890301-20-9P 890301-21-0P 890301-22-1P 890301-23-2P
890301-24-3P 890301-25-4P 890301-26-5P 890301-27-6P 890301-28-7P
890301-29-8P 890301-30-1P 890301-31-2P 890301-32-3P 890301-33-4P
890301-34-5P 890301-35-6P 890301-36-7P 890301-37-8P 890301-38-9P
890301-39-0P 890301-40-3P 890301-41-4P 890301-42-5P 890301-43-6P
890301-44-7P 890301-45-8P 890301-46-9P 890301-47-0P 890301-48-1P

890301-49-2P 890301-50-5P 890301-51-6P 890301-52-7P 890301-53-8P
 890301-54-9P 890301-55-0P 890301-56-1P 890301-57-2P 890301-58-3P
 890301-59-4P 890301-60-7P 890301-61-8P 890301-62-9P 890301-64-1P
 890301-65-2P 890301-67-4P 890302-76-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

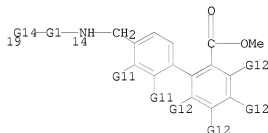
(preparation of substituted biaryl-carboxylates as bradykinin B1 antagonists or inverse agonists for treatment and prevention of pain and inflammation)

IT 98-09-9, Benzenesulfonyl chloride 98-88-4, Benzoyl chloride 767-00-0, 4-Cyanophenol 4518-10-9, Methyl 3-aminobenzoate 4548-45-2, 2-Chloro-5-nitropyridine 14432-16-7, 2-Chloro-4-nitropyridine N-oxide 15570-12-4, 3-Methoxybenzenethiol 19721-22-3, 3-Mercapto-1-propanol 23056-33-9, 2-Chloro-4-methyl-5-nitropyridine 27578-60-5, 1-(2-Aminoethyl)piperidine 33252-28-7, 6-Chloronicotinonitrile 39856-50-3, 5-Bromo-2-nitropyridine 73781-91-6, Methyl 6-chloronicotinate 216394-05-7, 3-Bromo-2-chloropyridine-5-sulfonyl chloride 887278-70-8 890301-68-5 890301-69-6 890301-70-9

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of substituted biaryl-carboxylates as bradykinin B1 antagonists or inverse agonists for treatment and prevention of pain and inflammation)

MSTR 1



G1 = phenylene (opt. substd.)
 G14 = 201

C(=O)G31
 201

G21 = NO2 / CO2H
 G31 = Ph (opt. substd. by (1-3) G21)
 Patent location: claim 1

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):end

=> s l3 sss full

FULL SEARCH INITIATED 09:31:14 FILE 'MARPAT'

FULL SCREEN SEARCH COMPLETED - 38150 TO ITERATE

99.4% PROCESSED 37922 ITERATIONS 2120 ANSWERS
100.0% PROCESSED 38150 ITERATIONS 2134 ANSWERS
SEARCH TIME: 00.00.23

L9 2134 SEA SSS FUL L1

=> b caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	65.42	255.55

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=> s l9

L10 2134 L9

=> s l10 and ad<=20030221

4514933 AD<=20030221

(AD<=20030221)

L11 1571 L10 AND AD<=20030221

=> d his

(FILE 'HOME' ENTERED AT 09:28:28 ON 30 APR 2008)

FILE 'REGISTRY' ENTERED AT 09:28:44 ON 30 APR 2008

L1 STRUCTURE UPLOADED

L2 1 S L1 SSS SAM

L3 44 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 09:29:18 ON 30 APR 2008

L4 20 S L3

L5 13 S L4 AND PY<=2002

L6 0 S L5 AND (PHOTO? OR CAGED OR PROTECT?)

L7 3 S L5 AND NUCLEO?

FILE 'MARPAT' ENTERED AT 09:30:36 ON 30 APR 2008

L8 50 S L3 SSS SAM

L9 2134 S L3 SSS FULL

FILE 'CAPLUS' ENTERED AT 09:31:54 ON 30 APR 2008

L10 2134 S L9

L11 1571 S L10 AND AD<=20030221

=> s l11 and (PHOTO? OR CAGED OR PROTECT?)

1572300 PHOTO?

4566 CAGED

679039 PROTECT?

L12 215 L11 AND (PHOTO? OR CAGED OR PROTECT?)

=> s l12 and nucleo?

787140 NUCLEO?

L13 4 L12 AND NUCLEO?

=> d l13 scan

L13 4 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN

IC ICM C07H019-00

INCL 536028550

CC 33-9 (Carbohydrates)

TI Catalytic stereoselective glycosylation process for preparing 2'-deoxy-2',2'-difluoronucleosides and 2'-deoxy-2'-fluoronucleosides

ST fluoro nucleoside stereoselective prepn; stereoselective glycosylation fluoro deoxy ribofuranose catalytic

IT Nucleosides, preparation

RL: SPN (Synthetic preparation); PREP (Preparation)

(catalytic stereoselective glycosylation process for preparing 2'-deoxy-2',2'-difluoronucleosides and 2'-deoxy-2'-fluoronucleosides)

IT Glycosidation catalysts

(stereoselective, acid salts; catalytic stereoselective glycosylation process for preparing 2'-deoxy-2',2'-difluoronucleosides and 2'-deoxy-2'-fluoronucleosides)

IT Glycosidation

(stereoselective, catalytic stereoselective glycosylation process for preparing 2'-deoxy-2',2'-difluoronucleosides and 2'-deoxy-2'-fluoronucleosides)

IT 76-05-1D, salts 2794-60-7, Barium trifluoromethanesulfonate 2926-27-4, Potassium trifluoromethanesulfonate 7601-90-3D, Perchloric acid, salts 7697-37-2D, Nitric acid, salts 7727-43-7, Barium sulfate 7778-80-5, Sulfuric acid dipotassium salt, uses 10294-54-9, Cesium sulfate 29420-49-3 35895-70-6, Tetrabutylammonium trifluoromethanesulfonate 41524-04-3, Cesium trifluoromethanesulfonate

RL: CAT (Catalyst use); USES (Uses)

(catalytic stereoselective glycosylation process for preparing 2'-deoxy-2',2'-difluoronucleosides and 2'-deoxy-2'-fluoronucleosides)

IT 71-30-7, Cytosine 134877-42-2 134877-43-3

RL: RCT (Reactant); RACT (Reactant or reagent)

(catalytic stereoselective glycosylation process for preparing 2'-deoxy-2',2'-difluoronucleosides and 2'-deoxy-2'-fluoronucleosides)

IT 18037-10-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(catalytic stereoselective glycosylation process for preparing

2'-deoxy-2',2'-difluoronucleosides and 2'-deoxy-2'-fluoronucleosides)
 IT 20227-41-2P 56632-83-8P 103884-98-6P 134790-39-9P 134790-40-2P
 170980-98-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (catalytic stereoselective glycosylation process for preparing
 2'-deoxy-2',2'-difluoronucleosides and 2'-deoxy-2'-fluoronucleosides)
 IT 75-05-8, Acetonitrile, uses 100-66-3, uses 107-12-0, Propionitrile
 110-71-4, Glyme 123-91-1, Dioxane, uses
 RL: NUU (Other use, unclassified); USES (Uses)
 (solvent; catalytic stereoselective glycosylation process for preparing
 2'-deoxy-2',2'-difluoronucleosides and 2'-deoxy-2'-fluoronucleosides)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L13 4 ANSWERS CAPLUS COPYRIGHT 2008 ACS ON STN
 IC ICM G03C001-015
 ICS G03C001-035; G03C001-06; G03C001-08; G03C001-09; G03C001-34
 CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other
 Reprographic Processes)
 TI Manufacture of silver halide photographic emulsion containing
 selenium-doped grains with high thermal stability
 ST selenium compd dopant photog emulsion; selenocyanide dopant
 silver halide emulsion; thiazolium benzo additive photog
 material
 IT Photographic emulsions
Photographic sensitizers
 (manufacture of silver halide photog. emulsion containing
 selenium-doped grains with high thermal stability)
 IT 3425-46-5, Potassium selenocyanate
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material
 use); USES (Uses)
 (dopant; manufacture of silver halide photog. emulsion containing
 selenium-doped grains with high thermal stability)
 IT 333-20-0, Potassium thiocyanate 20792-41-0, Tripotassium
 hexacyanoiridate
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material
 use); USES (Uses)
 (manufacture of silver halide photog. emulsion containing
 selenium-doped grains with high thermal stability)
 IT 2786-31-4 16407-55-9 95537-84-1 178156-23-5 178156-25-7
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material
 use); USES (Uses)
 (nucleophilic agent; manufacture of silver halide photog
 . emulsion containing selenium-doped grains with high thermal stability)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L13 4 ANSWERS CAPLUS COPYRIGHT 2008 ACS ON STN
 IC ICM C12N
 CC 27-17 (Heterocyclic Compounds (One Hetero Atom))
 Section cross-reference(s): 1, 63
 TI Preparation of aza- and polyaza-naphthalenyl ketones useful as HIV
 integrase inhibitors
 ST quinoline naphthyridine azanaphthalenyl ketone HIV integrase inhibitor
 prepn
 IT Antibiotics
 Immunomodulators
 Vaccines

(combination pharmaceutical; preparation of aza- and polyaza-naphthalenyl ketones useful as HIV integrase inhibitors)

IT AIDS (disease)
 Anti-AIDS agents
 Anti-infective agents
 Antiviral agents
 Human
 (preparation of aza- and polyaza-naphthalenyl ketones useful as HIV integrase inhibitors)

IT 422550-66-1P, 1-(3-Benzylphenyl)-1-(8-hydroxyquinolin-7-yl)methanone
 422550-70-7P, 1-(3-Benzylphenyl)-1-(8-hydroxy-4-methylquinolin-7-yl)methanone 422550-75-2P 422550-76-3P, 1-(3-Benzylphenyl)-1-(8-hydroxy-5-methylquinolin-7-yl)methanone 422550-80-9P,
 [3-Benzyl-5-(1H-1,2,4-triazol-1-ylmethyl)phenyl](5-chloro-8-hydroxyquinolin-7-yl)methanone 422550-90-1P, 1-(3-Benzyl-5-((imidazol-1-yl)methyl)phenyl)-1-(5-chloro-8-hydroxyquinolin-7-yl)methanone
 422550-91-2P, 1-(4-Benzylpyridin-2-yl)-1-(8-hydroxyquinolin-7-yl)methanone 422550-92-3P, 1-(3-Benzylphenyl)-1-(8-hydroxy[1,6]naphthyridin-7-yl)methanone 422550-94-5P, 1-[3-Benzyl-5-(1,1-dioxoisothiazolidin-2-ylmethyl)phenyl]-1-(8-hydroxy[1,6]naphthyridin-7-yl)methanone
 422550-96-7P, 1-[3-Benzyl-5-(morpholin-4-ylmethyl)phenyl]-1-(8-hydroxy[1,6]naphthyridin-7-yl)methanone 422550-98-9P,
 1-(3-Benzyl-5-(piperidin-1-yl)methyl)phenyl]-1-(8-hydroxy[1,6]naphthyridin-7-yl)methanone 422550-99-0P,
 1-[3-Benzyl-5-(4-methylpiperazin-1-ylmethyl)phenyl]-1-(8-hydroxy[1,6]naphthyridin-7-yl)methanone 422551-00-6P,
 1-[3-Benzyl-5-[1-(8-hydroxy[1,6]naphthyridin-7-yl)methanoyl]benzyl]-1H-pyridin-2-one 422551-01-7P, 3-[3-Benzyl-5-[(8-hydroxy-1,6-naphthyridin-7-yl)carbonyl]benzyl]-1-methylpyrimidine-2,4-(1H,3H)-dione 422551-02-8P,
 1-[3-Benzyl-5-(tetrazol-1-ylmethyl)phenyl]-1-(8-hydroxy[1,6]naphthyridin-7-yl)methanone 422551-03-9P 422551-04-0P 422551-06-2P,
 3-[3-Benzyl-5-[1-(8-hydroxy[1,6]naphthyridin-7-yl)methanoyl]benzyl]-3H-pyrimidin-4-one 422551-07-3P, 1-[3-Benzyl-5-[1-(8-hydroxy[1,6]naphthyridin-7-yl)methanoyl]benzyl]pyrrolidin-2-one 422551-09-5P, N-[3-Benzyl-5-[1-(8-hydroxy[1,6]naphthyridin-7-yl)methanoyl]benzyl]formamide 422551-11-9P, N-[3-Benzyl-5-[1-(8-hydroxy[1,6]naphthyridin-7-yl)methanoyl]benzyl]-N-methylformamide 422551-12-0P, 1-(8-Hydroxy[1,6]naphthyridin-7-yl)-1-(3-pyrazol-1-ylmethyl-5-pyridin-2-ylmethylphenyl)methanone 422551-14-2P, 1-(8-Hydroxy[1,6]naphthyridin-7-yl)-1-[3-((1,1-dioxoisothiazolidin-2-yl)methyl)-5-((pyridin-2-yl)methyl)phenyl]methanone 422551-15-3P 422551-16-4P
 422551-17-5P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (drug; preparation of aza- and polyaza-naphthalenyl ketones useful as HIV integrase inhibitors)

IT 130-26-7P, 8-Hydroxy-7-iodo-5-chloroquinoline 3846-73-9P,
 4-Methylquinolin-8-ol 5541-67-3P, 8-Hydroxy-5-methylquinoline 7175-09-9P, 8-Hydroxy-7-bromo-5-methylquinoline 7259-53-2P,
 4-Benzylpyridine N-oxide 13019-32-4P, 7-Bromoquinolin-8-ol 126403-57-4P, 8-Methoxy-5-methylquinoline 193204-90-9P,
 4-Benzylpyridine-2-carbonitrile 193204-91-0P, 4-Benzylpyridine-2-carboxylic acid methyl ester 422550-67-2P, 7-Bromo-8-(2-methoxyethoxymethoxy)quinoline 422550-68-3P, (3-Benzylphenyl)[8-[(2-methoxyethoxy)methoxy]quinolin-7-yl]methanone 422550-69-4P,
 N-Methyl-N-methoxy(3-benzyl)benzenecarboxamide 422550-71-8P,
 8-Hydroxy-4-methylquinoline-7-carboxylic acid 422550-72-9P, Methyl

8-hydroxy-4-methylquinoline-7-carboxylate 422550-73-0P, Methyl
 8-[(2-methoxyethoxy)methoxy]-4-methylquinoline-7-carboxylate
 422550-74-1P, (3-Benzylphenyl)[8-[(2-methoxyethoxy)methoxy]-4-
 methylquinolin-7-yl]methanone 422550-77-4P, N-Methyl-N-methoxy-3-
 (benzyl)benzenecarboxamide 422550-78-5P, 8-[(2-Methoxyethoxy)methoxy]-7-
 bromo-5-methylquinoline 422550-79-6P, 1-[(3-Benzylphenyl)-1-[8-[(2-
 methoxyethoxy)methoxy]-5-methylquinolin-7-yl]methanone 422550-81-0P
 422550-82-1P 422550-83-2P, 3-Benzoyl-5-(bromomethyl)-N-methoxy-N-
 methylbenzamide 422550-84-3P, 3-Benzoyl-N-methoxy-N-methyl-5-(1H-1,2,4-
 triazol-1-ylmethyl)benzamide 422550-85-4P, 3-Benzyl-N-methoxy-N-methyl-5-
 (1H-1,2,4-triazol-1-ylmethyl)benzamide 422550-86-5P,
 3-Benzyl-5-(1H-1,2,4-triazol-1-ylmethyl)benzaldehyde 422550-87-6P,
 8-[(2-Methoxyethoxy)methoxy]-7-iodo-5-chloroquinoline 422550-88-7P,
 [3-Benzyl-5-(1H-1,2,4-triazol-1-ylmethyl)phenyl][5-chloro-8-[(2-
 methoxyethoxy)methoxy]quinolin-7-yl]methanol 422550-89-8P,
 [3-Benzyl-5-(1H-1,2,4-triazol-1-ylmethyl)phenyl][5-chloro-8-[(2-
 methoxyethoxy)methoxy]quinolin-7-yl]methanone
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)

(intermediate; preparation of aza- and polyaza-naphthalenyl ketones useful
 as HIV integrase inhibitors)

IT 52350-85-3, HIV Integrase

RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (of HIV; preparation of aza- and polyaza-naphthalenyl ketones useful as HIV
 integrase inhibitors)

IT 75-12-7, Formamide, reactions 78-94-4, Methyl vinyl ketone, reactions
 100-58-3, Phenylmagnesium bromide 107-02-8, Acrolein, reactions
 109-01-3 110-89-4, Piperidine, reactions 110-91-8, Morpholine,
 reactions 120-71-8, 2-Methoxy-5-methylaniline 123-39-7,
 N-Methylformamide 130-16-5, 8-Hydroxy-5-chloroquinoline 142-08-5,
 2-Hydroxypyridine 148-24-3, 8-Hydroxyquinoline, reactions 288-13-1,
 Pyrazole 288-88-0, 1H-1,2,4-Triazole 288-94-8, 1H-Tetrazole
 499-49-0, 5-Methylisophthalic acid 579-18-0, 3-Benzoylbenzoic acid
 615-77-0, 1-Methyluracil 1335-05-3, Pyrimidone 2116-65-6,
 4-Benzylpyridine 3970-21-6, Methoxyethoxymethyl chloride 27798-39-6,
 1-Benzyl-3-bromobenzene 29191-52-4, Anisidine 422550-93-4,
 3-[[[2-(3-Benzylphenyl)-2-oxoethyl]benzenesulfonylamino]methyl]pyridine-2-
 carboxylic acid ethyl ester 422550-95-6, 3-[[[2-(3-Benzyl-5-(1,1-
 dioxoisothiazolidin-2-ylmethyl)phenyl]-2-oxoethyl]benzoyloxycarbonylamino]m
 ethyl]pyridine-2-carboxylic acid ethyl ester 422550-97-8 422551-05-1
 422551-08-4 422551-13-1 422551-18-6, 6-[2-(4-Benzylpyridin-2-yl)-2-
 oxoethyl]pyrrolo[3,4-b]pyridine-5,7-dione

RL: RCT (Reactant); RACT (Reactant or reagent)

(reactant; preparation of aza- and polyaza-naphthalenyl ketones useful as
 HIV integrase inhibitors)

IT 425435-29-6 425435-30-9

RL: PRP (Properties)
 (unclaimed nucleotide sequence; preparation of aza- and
 polyaza-naphthalenyl ketones useful as HIV integrase inhibitors)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L13 4 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN

LC ICM C07H019-073

INCL 536028100

CC 33-9 (Carbohydrates)

TI Stereoselective fusion glycosylation process for preparing
 2'-deoxy-2',2'-difluoronucleosides and 2'-deoxy-2'-fluoronucleosides

ST stereoselective fusion glycosylation; deoxy fluoro nucleoside
IT Nucleosides, preparation
RL: SPN (Synthetic preparation); PREP (Preparation)
(deoxyribo-, stereoselective fusion glycosylation process for preparing
2'-deoxy-2',2'-difluoronucleosides and 2'-deoxy-2'-fluoronucleosides)
IT Glycosidation
(stereoselective, stereoselective fusion glycosylation process for
preparing 2'-deoxy-2',2'-difluoronucleosides and 2'-deoxy-2'-
fluoronucleosides)
IT 66-22-8, Uracil, reactions 71-30-7, Cytosine 18027-23-1,
Bis-trimethylsilyl-N-acetylcytosine 134877-42-2 134877-43-3
153011-93-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(stereoselective fusion glycosylation process for preparing
2'-deoxy-2',2'-difluoronucleosides and 2'-deoxy-2'-fluoronucleosides)
IT 10457-14-4P, Bis-trimethylsilyluracil 18037-10-0P 134790-39-9P
134790-40-2P 143157-23-7P 143157-24-8P 143157-26-0P 143157-27-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(stereoselective fusion glycosylation process for preparing
2'-deoxy-2',2'-difluoronucleosides and 2'-deoxy-2'-fluoronucleosides)
IT 95058-81-4P 163521-56-0P 163521-57-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(stereoselective fusion glycosylation process for preparing
2'-deoxy-2',2'-difluoronucleosides and 2'-deoxy-2'-fluoronucleosides)

ALL ANSWERS HAVE BEEN SCANNED

=> d l13 1- ibib abs hitstr
YOU HAVE REQUESTED DATA FROM 4 ANSWERS - CONTINUE? Y/(N):y

L13 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2008 ACS on SIN
ACCESSION NUMBER: 2002:353578 CAPLUS <LOGINID:20080430>
DOCUMENT NUMBER: 136:386029
TITLE: Preparation of aza- and polyaza-naphthalenyl ketones
useful as HIV integrase inhibitors
INVENTOR(S): Zhuang, Linghang; Wai, John S.; Payne, Linda S.;
Young, Steven D.; Fisher, Thorsten E.; Embrey, Mark;
Guare, James P.
PATENT ASSIGNEE(S): Merck & Co., Inc., USA
SOURCE: PCT Int. Appl., 189 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002036734	A2	20020510	WO 2001-US42553	20011009 <--
WO 2002036734	A3	20020711		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW			

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

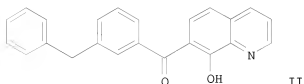
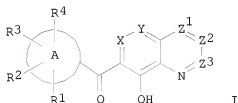
CA 2425067	A1	20020510	CA 2001-2425067	20011009 <--
AU 2002030392	A	20020515	AU 2002-30392	20011009 <--
EP 1333831	A2	20030813	EP 2001-990637	20011009 <--

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

JP 2004513134	T	20040430	JP 2002-539480	20011009 <--
US 20050010048	A1	20050113	US 2003-398929	20030717

PRIORITY APPLN. INFO.: US 2000-239732P P 20001012
 WO 2001-US42553 W 20011009

OTHER SOURCE(S): MARPAT 136:386029
 GI



AB Title compds. I [A = Ph, Ph fused to a carbocycle to form a fused carbocyclic ring system, heterocycle, A is connected by a ring carbon to the exocyclic carbonyl, and is substituted by R1-4; X = N, CQ1; Y = N, CQ2, provided that X and Y are not both N; Z1 = N, CQ3; Z2 = N, CQ4; Z3 = N, CH; Q1-4 = H, alkyl, fluoroalkyl, OH, (fluoro)alkoxy, halo, CN, etc.; R1-2 H, (fluoro)alkyl, (fluoro)alkoxy, OH, halo, NO2, CN, etc.; R3-4 = H, halo, CN, NO2, OH, (fluoro)alkyl, (fluoro)alkoxy, etc. with some provisions] were prepared For instance, 7-bromoquinolin-8-ol (preparation given) was protected as the MEM ether and acylated with N-methyl-N-methoxy-3-(benzyl)benzenecarboxamide (preparation given; THF, t-BuLi, -74°C) to give (3-benzylphenyl)[8-[(2-methoxyethoxy)methoxy]quinolin-7-yl]methanone. This intermediate was deprotected with TFA and purified by reverse phase HPLC to yield II. Selected example compds. had IC50 < 100 µM for HIV integrase. I are useful in the prevention or treatment of infection by HIV and the treatment or the delay in the onset of AIDS optionally in combination with

other antivirals, immunomodulators, antibiotics or vaccines.

L13 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1996:472629 CAPLUS <<LOGINID:20080430>>

DOCUMENT NUMBER: 125:127622

TITLE: Manufacture of silver halide photographic emulsion containing selenium-doped grains with high thermal stability

INVENTOR(S): Haraguchi, Nobuyuki; Ikeda, Hideo; Mifune, Hiroyuki; Kojima, Tetsuo

PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 42 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08122949	A	19960517	JP 1994-282435	19941024 <--
US 5641619	A	19970624	US 1995-547132	19951024 <--
PRIORITY APPLN. INFO.:			JP 1994-282435	A 19941024

OTHER SOURCE(S): MARPAT 125:127622

GI For diagram(s), see printed CA Issue.

AB The claimed method for Ag halide photoq. emulsion comprises doping 1.0 + 10-8-1.0 + 10-6 mol/m² grain surface of Se into the crystals at a stage after addition of 10-49% of AgNO₃ to the crystallizing mixture. The emulsion may further contain a nucleophilic compound I (R₁ = H, alkyl; R₂ = H, alkyl, alkenyl, alkynyl, alkoxy, electron-attractive group; n = 1-4; Z = benzo when m = 1, and R₂ is substituted on thiazole ring when m = 0; R₃ = alkyl, aralkyl, alkenyl, alkynyl; X- = anion). It has high sensitivity and good stability upon high temperature storage. The emulsions in the highest speed unit layers of a color reversal film were prepared by adding KSeCN as the dopant and 3-methylbenzothiazolium iodide (nucleophilic agent) during crystallization stage.

L13 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1995:690262 CAPLUS <<LOGINID:20080430>>

DOCUMENT NUMBER: 123:340765

TITLE: Catalytic stereoselective glycosylation process for preparing 2'-deoxy-2',2'-difluoronucleosides and 2'-deoxy-2'-fluoronucleosides

INVENTOR(S): Kjell, Douglas P.

PATENT ASSIGNEE(S): Eli Lilly and Co., USA

SOURCE: U.S., 14 pp. Cont.-in-part of U.S. Ser. No. 902, 112, abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

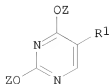
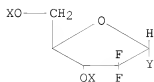
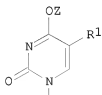
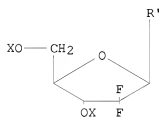
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 8

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5426183	A	19950620	US 1993-44312	19930407 <--
AU 9341355	A	19931223	AU 1993-41355	19930618 <--

AU 659009	B2	19950504		
CA 2098881	A1	19931223	CA 1993-2098881	19930621 <--
CA 2098881	C	20050607		
NO 9302288	A	19931223	NO 1993-2288	19930621 <--
NO 180235	B	19961202		
NO 180235	C	19970312		
HU 64358	A2	19931228	HU 1993-1822	19930621 <--
EP 577303	A1	19940105	EP 1993-304817	19930621 <--
EP 577303	B1	19971001		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
BR 9302434	A	19940216	BR 1993-2434	19930621 <--
JP 06157570	A	19940603	JP 1993-149130	19930621 <--
JP 3313191	B2	20020812		
IN 177576	A1	19970208	IN 1993-CA344	19930621 <--
PL 172348	B1	19970930	PL 1993-299415	19930621 <--
AT 158799	T	19971015	AT 1993-304817	19930621 <--
ES 2107624	T3	19971201	ES 1993-304817	19930621 <--
FI 108643	B1	20020228	FI 1993-2869	19930621 <--
HU 223837	B1	20050228	HU 2002-1196	19930621 <--
PRIORITY APPLN. INFO.:			US 1992-902112	B2 19920622
			US 1992-902135	A 19920622
			US 1992-902150	A 19920622
			US 1992-902302	A 19920622
			US 1992-902312	A 19920622
			US 1992-902313	A 19920622
			US 1993-44309	A 19930407
			US 1993-44312	A 19930407
			US 1993-44315	A 19930407
			US 1993-44343	A 19930407
			US 1993-44345	A 19930407
			US 1993-44996	A 19930407
OTHER SOURCE(S):		CASREACT 123:340765; MARPAT 123:340765		
GI				



AB A catalytic stereoselective glycosylation process is claimed for preparing β -anomer enriched nucleoside of the formula I wherein each X is independently selected from hydroxy protecting groups and R' is a nucleobase, e.g., II, R1 is selected from the group consisting of hydrogen, C1-C7 alkyl and halo; Z is a hydroxy protecting group, comprising reacting α -anomer 2,2-difluorocarbhydrate in an anomer ratio of greater than 1:1 α to β of the formula III wherein Y is selected from the group consisting of optionally substituted C1-C7 alkylsulfonyloxy and optionally substituted arylsulfonyloxy, where the substituents can be one or two groups selected from cyano, halo, carboalkoxy, toluoyl, nitro, alkoxy, C1-C7 alkyl, and di(C1-C7 alkyl)amino, aryl is Ph or naphthyl, and X is as defined above; with at least 3 molar equivalents of a nucleobase derivative, R", selected from the group consisting of, e.g., IV, at a temperature ranging from about 50° to about 100°; in an inert solvent; and in the presence of a catalyst selected from the group consisting of the potassium, barium, cesium, and trialkylammonium salts of trifluoromethanesulfonic acid, nonafluorobutanesulfonic acid, sulfuric acid, perchloric acid, nitric acid, and trifluoroacetic acid. Thus, e.g., stereoselective glycosylation of III (X = benzoyl, Y = methanesulfonate) with bis(trimethylsilyl)cytosine in presence of cesium sulfate afforded a 24% yield of the corresponding β -anomer-enriched I, with β : α = 14.9:1, vs. a 77% yield with β : α = 3.4:1 without catalyst.

L13 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1995:586496 CAPLUS <<LOGINID:20080430>>
 DOCUMENT NUMBER: 123:9874
 TITLE: Stereoselective fusion glycosylation process for preparing 2'-deoxy-2',2'-difluoronucleosides and 2'-deoxy-2'-fluoronucleosides
 INVENTOR(S): Chou, Ta Sen
 PATENT ASSIGNEE(S): Eli Lilly and Co., USA
 SOURCE: U.S., 12 pp. Cont.-in-part of U.S. Ser. No. 902,312.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 8
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5401838	A	19950328	US 1993-44343	19930407 <--
US 5371210	A	19941206	US 1992-902312	19920622 <--
AU 9341355	A	19931223	AU 1993-41355	19930618 <--
AU 659009	B2	19950504		
CA 2098881	A1	19931223	CA 1993-2098881	19930621 <--
CA 2098881	C	20050607		
NO 9302288	A	19931223	NO 1993-2288	19930621 <--
NO 180235	B	19961202		
NO 180235	C	19970312		
HU 64358	A2	19931228	HU 1993-1822	19930621 <--
EP 577303	A1	19940105	EP 1993-304817	19930621 <--
EP 577303	B1	19971001		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
BR 9302434	A	19940216	BR 1993-2434	19930621 <--
JP 06157570	A	19940603	JP 1993-149130	19930621 <--

JP 3313191	B2	20020812		
PL 172348	B1	19970930	PL 1993-299415	19930621 <--
AT 158799	T	19971015	AT 1993-304817	19930621 <--
ES 2107624	T3	19971201	ES 1993-304817	19930621 <--
FI 108643	B1	20020228	FI 1993-2869	19930621 <--
CZ 291165	B6	20030115	CZ 1993-1233	19930621 <--
SG 94686	A1	20030318	SG 1996-7939	19930621 <--
HU 223837	B1	20050228	HU 2002-1196	19930621 <--

PRIORITY APPLN. INFO.:

	US 1992-902312	A2	19920622
	US 1992-902112	A	19920622
	US 1992-902135	A	19920622
	US 1992-902150	A	19920622
	US 1992-902302	A	19920622
	US 1992-902313	A	19920622
	US 1993-44309	A	19930407
	US 1993-44312	A	19930407
	US 1993-44315	A	19930407
	US 1993-44343	A	19930407
	US 1993-44345	A	19930407
	US 1993-44996	A	19930407

OTHER SOURCE(S): CASREACT 123:9874; MARPAT 123:9874

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB A stereoselective fusion glycosylation process for preparing a β -anomer enriched nucleoside of the formula I wherein each X is independently selected from hydroxy protecting groups and R' is a nucleobase selected from the group consisting of e.g., II-IV wherein R1 is selected from the group consisting of hydrogen C1 -C7 alkyl arid halo; R2 is selected from the group consisting of hydrogen, C1 -C7 alkyl and halo; Z is a hydroxy protecting group and W is an amino protecting group; comprising reacting α -anomer 2,2-difluorocarbohydrate in an anomer ratio of greater than 1:1 α to β of the formula V wherein Y is selected from the group consisting of C1 -C7 alkylsulfonyloxy, arylsulfonyloxy, substituted C1 -C7 alkylsulfonyloxy and substituted arylsulfonyloxy and X is as defined above; with at least 3 molar equivalents of a nucleobase derivative R" selected from the group consisting of, e.g., VI-VIII wherein R1, R2, Z and W are as defined above; at a temperature ranging from about 100° to about 160° in the absence of a catalyst and a solvent. Thus, e.g., 400 mg of 2-deoxy-2,2-difluoro-D-ribofuranosyl-3,5-dibenzoyl-1- α -methanesulfonate, dissolved in 2 mL of xylenes, were added to molten bis(trimethylsilyl)cytosine (prepared by combining 292 mg of cytosine with 2 mL of hexamethyldisilazane, 11 mg of ammonium sulfate and 5 mL of xylenes and refluxing the solution for one hour to form a homogeneous solution, then removing the excess xylenes and hexamethyldisilazane) and the xylenes were removed; the temperature of the reaction mixture was maintained at 160° for 15 min.; the α to β anomeric ratio of blocked nucleoside product was 1:1.3.

=> d his

(FILE 'HOME' ENTERED AT 09:28:28 ON 30 APR 2008)

FILE 'REGISTRY' ENTERED AT 09:28:44 ON 30 APR 2008

L1 STRUCTURE UPLOADED
 L2 1 S L1 SSS SAM
 L3 44 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 09:29:18 ON 30 APR 2008

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 L6 0 S L5 AND (PHOTO? OR CAGED OR PROTECT?)
 L7 3 S L5 AND NUCLEO?

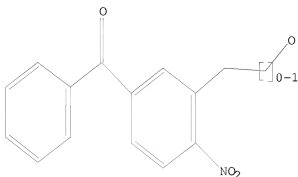
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FILE 'CAPLUS' ENTERED AT 09:31:54 ON 30 APR 2008

L10 2134 S L9
 L11 1571 S L10 AND AD<=20030221
 L12 215 S L11 AND (PHOTO? OR CAGED OR PROTECT?)
 L13 4 S L12 AND NUCLEO?

=> d 11
 L1 HAS NO ANSWERS
 L1 STR



G1 NO2,X,H
 G2 G1,CN,MeO,Ak

Structure attributes must be viewed using STN Express query preparation.

=> logoff hold
 COST IN U.S. DOLLARS
 FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
23.68	279.23

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
 CA SUBSCRIBER PRICE

SINCE FILE	TOTAL
ENTRY	SESSION
-3.20	-3.20

SESSION WILL BE HELD FOR 120 MINUTES
 STN INTERNATIONAL SESSION SUSPENDED AT 09:33:40 ON 30 APR 2008

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssptajsl1623

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 09:35:09 ON 30 APR 2008
FILE 'CAPLUS' ENTERED AT 09:35:09 ON 30 APR 2008
COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	23.68	279.23
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.20	-3.20

=> s l11 and photo?
1572300 PHOTO?
L14 128 L11 AND PHOTO?

=> s l14 and nucleo?
787140 NUCLEO?
L15 1 L14 AND NUCLEO?

=> d l15 ti

L15 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN
TI Manufacture of silver halide photographic emulsion containing
selenium-doped grains with high thermal stability

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	29.24	284.79
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.20	-3.20

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 09:36:05 ON 30 APR 2008

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssptajsl1623

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 09:36:44 ON 30 APR 2008
FILE 'CAPLUS' ENTERED AT 09:36:44 ON 30 APR 2008
COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	29.24	284.79
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.20	-3.20

=> d his

(FILE 'HOME' ENTERED AT 09:28:28 ON 30 APR 2008)

FILE 'REGISTRY' ENTERED AT 09:28:44 ON 30 APR 2008

L1 STRUCTURE UPLOADED
L2 1 S L1 SSS SAM
L3 44 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 09:29:18 ON 30 APR 2008

L4 20 S L3
L5 13 S L4 AND PY<=2002
L6 0 S L5 AND (PHOTO? OR CAGED OR PROTECT?)
L7 3 S L5 AND NUCLEO?

FILE 'MARPAT' ENTERED AT 09:30:36 ON 30 APR 2008

L8 50 S L3 SSS SAM
L9 2134 S L3 SSS FULL

FILE 'CAPLUS' ENTERED AT 09:31:54 ON 30 APR 2008

L10 2134 S L9
L11 1571 S L10 AND AD<=20030221
L12 215 S L11 AND (PHOTO? OR CAGED OR PROTECT?)
L13 4 S L12 AND NUCLEO?
L14 128 S L11 AND PHOTO?
L15 1 S L14 AND NUCLEO?

=> s l5 and ?nucleo?

903034 ?NUCLEO?
L16 3 L5 AND ?NUCLEO?

=> d l16 scan

L16 3 ANSWERS CAPLUS COPYRIGHT 2008 ACS ON STN
CC 35-5 (Chemistry of Synthetic High Polymers)
TI Synthesis of poly(arylene ether ketone)s containing amide side groups via
nitro displacement reaction
ST polyether polyketone prepn dinitro monomer diol
IT Polyketones
Polyketones
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(polyether-; preparation via nitro displacement reaction and properties of
poly(arylene ether ketone)s containing amide side groups)

- IT Polyethers, preparation
Polyethers, preparation
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(polyketone-; preparation via nitro displacement reaction and properties of
poly(arylene ether ketone)s containing amide side groups)
- IT 220114-44-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(monomer; preparation dinitro monomer for synthesis of poly(arylene ether
ketone)s containing amide side groups)
- IT 2516-95-2, 5-Chloro-2-nitrobenzoic acid 153088-92-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation dinitro monomer for synthesis of poly(arylene ether ketone)s
containing amide side groups)
- IT 220114-40-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation dinitro monomer for synthesis of poly(arylene ether ketone)s
containing amide side groups)
- IT 220114-47-6P 220114-50-1P 220114-52-3P 220114-53-4P
220114-54-5P 220114-55-6P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation via nitro displacement reaction and properties of poly(arylene
ether ketone)s containing amide side groups)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

- L16 3 ANSWERS CAPLUS COPYRIGHT 2008 ACS ON STN
- CC 25-20 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
Section cross-reference(s): 22, 23
- TI Reactions of organic anions. Part 110. Vicarious nucleophilic
substitution of hydrogen in nitroarenes with α -substituted nitriles
and esters. Direct α -cyanoalkylation and α -
carbalkoxyalkylation of nitroarenes
- ST vicarious nucleophilic substitution nitroarene; cyanoalkylation
nitroarene; carbalkoxyalkylation nitroarene; nitroarene cyanoalkylation
carbalkoxyalkylation; alkylation cyano carbalkoxy nitroarene;
alkanenitrile chloro oxy thio anion; chloroalkanenitrile anion reaction;
oxyalkanenitrile anion reaction; thioalkanenitrile anion reaction;
alkanecarboxylate thio anion reaction
- IT Regiochemistry
(in vicarious nucleophilic substitution of hydrogen in
nitroarenes with substituted nitriles and esters)
- IT Substitution reaction, nucleophilic
(vicarious, of hydrogen in nitroarenes with substituted nitriles and
esters)
- IT Alkylation
(alkoxycarbonyl-, of nitroarenes by vicarious nucleophilic
substitution of hydrogen with substituted esters)
- IT Alkylation
(cyano-, of nitroarenes by vicarious nucleophilic
substitution of hydrogen with substituted nitriles)
- IT 89278-25-1
RL: PROC (Process)
(conversion of, to nitronaphthalenacetonitrile)
- IT 72301-66-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(preparation and decyanation of)

IT 89278-18-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and hydrolysis of)

IT 89278-27-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reduction and acetylation of)

IT 89278-00-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and C-methylation of)

IT 555-21-5P 610-66-2P 2945-08-6P 7599-05-5P 22908-29-8P
 29704-38-9P 50712-63-5P 72301-65-6P 72301-67-8P 72301-68-9P
 72301-69-0P 72301-70-3P 77158-79-3P 80199-01-5P 81310-40-9P
 81327-28-8P 85397-18-8P 86981-07-9P 87081-90-1P 89277-98-5P
 89277-99-6P 89278-01-3P 89278-02-4P 89278-03-5P 89278-04-6P
 89278-05-7P 89278-06-8P 89278-09-1P 89278-10-4P 89278-11-5P
 89278-12-6P 89278-13-7P 89278-14-8P 89278-17-1P 89278-19-3P
 89278-20-6P 89278-21-7P 89278-22-8P 89278-23-9P
 89278-24-0P 89278-26-2P 89278-28-4P 89302-15-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

IT 107-14-2 1617-17-0 3598-14-9 5219-61-4 13031-13-5 17277-58-6
 27888-12-6 32121-27-0 33695-43-1 35928-65-5 61540-35-0
 63006-68-8 70477-21-3 72301-64-5 89278-07-9 89278-08-0
 89278-15-9 89278-16-0
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (vicarious nucleophilic substitution of hydrogen of nitroarene by)

IT 88-73-3 91-23-6 92-93-3 100-17-4 100-29-8 350-46-9 701-57-5
 1493-27-2 3282-56-2
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (vicarious nucleophilic substitution of hydrogen of, by nitrile anions)

IT 86-57-7 98-95-3, reactions 100-00-5 121-73-3 952-97-6
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (vicarious nucleophilic substitution of hydrogen of, by nitrile or ester anions)

IT 1144-74-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (vicarious nucleophilic substitution of hydrogen of, ester anions)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L16 3 ANSWERS CAPLUS COPYRIGHT 2008 ACS ON STN
 CC 25-16 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
 TI Reactions of organic anions. Part 163. Reactions of nitrobenzenophenones with carbanions containing leaving groups. Vicarious nucleophilic substitution of hydrogen versus Darzens or the Wittig-Horner reactions
 ST nitrobenzenophenone reaction carbanion leaving group; nucleophilic substitution nitrobenzenophenone; Darzens reaction nitrobenzenophenone carbanion; Wittig Horner reaction nitrobenzenophenone carbanion
 IT Carbanions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with nitrobenzenophenones)

IT Ring closure and formation
(Darzens, of nitrobenzophenones with carbanions containing leaving groups)

IT Wittig reaction
(Horner, of nitrobenzophenones with carbanions containing leaving groups)

IT Substitution reaction, nucleophilic
(vicarious, in carbanion reactions with nitrobenzophenones)

IT 79482-00-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(bromination of)

IT 119657-21-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and hydrolysis of)

IT 94514-35-9P 94514-36-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and methylation of)

IT 119657-16-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and reaction with di-Ph disulfide)

IT 119657-20-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and reaction with nitrobenzophenone)

IT 119657-22-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and substitution reactions of)

IT 41865-47-8P 69709-36-0P 94514-33-7P 94514-34-8P 94514-37-1P
119656-97-2P 119656-98-3P 119656-99-4P 119657-00-0P 119657-01-1P
119657-02-2P 119657-03-3P 119657-04-4P 119657-05-5P 119657-06-6P
119657-07-7P 119657-08-8P 119657-09-9P 119657-10-2P 119657-11-3P
119657-12-4P 119657-13-5P 119657-14-6P 119657-15-7P 119657-17-9P
119657-18-0P 119657-19-1P 119657-23-7P 119657-24-8P 119657-25-9P
119657-26-0P 119679-95-7P 119679-96-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

IT 882-33-7, Diphenyl disulfide
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with benzylphosphonate derivative)

IT 1144-74-7, p-Nitrobenzophenone 2243-79-0, o-Nitrobenzophenone
2243-80-3, m-Nitrobenzophenone
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with carbanions containing leaving groups)

IT 107-14-2 3167-63-3 3598-14-9 5219-61-4 5533-31-3 7205-98-3
13557-25-0 15296-86-3 19169-90-5 31540-74-6 33695-43-1
38066-16-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with nitrobenzophenone)

IT 350-46-9, p-Fluoronitrobenzene
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with phenyl(tetrahydropyranoxy)acetonitrile)

ALL ANSWERS HAVE BEEN SCANNED

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(FILE 'HOME' ENTERED AT 09:28:28 ON 30 APR 2008)

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L1 STRUCTURE UPLOADED
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L3 44 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 09:29:18 ON 30 APR 2008

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L5 13 S L4 AND PY<=2002
L6 0 S L5 AND (PHOTO? OR CAGED OR PROTECT?)
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FILE 'MARPAT' ENTERED AT 09:30:36 ON 30 APR 2008

L8 50 S L3 SSS SAM
L9 2134 S L3 SSS FULL

FILE 'CAPLUS' ENTERED AT 09:31:54 ON 30 APR 2008

L10 2134 S L9
L11 1571 S L10 AND AD<=20030221
L12 215 S L11 AND (PHOTO? OR CAGED OR PROTECT?)
L13 4 S L12 AND NUCLEO?
L14 128 S L11 AND PHOTO?
L15 1 S L14 AND NUCLEO?
L16 3 S L5 AND ?NUCLEO?

=> s l12 and (photo? OR caged) and ?nucleo?

1572300 PHOTO?
4566 CAGED
903034 ?NUCLEO?

L17 2 L12 AND (PHOTO? OR CAGED) AND ?NUCLEO?

=> d l17 scan

L17 2 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN

IC ICM C08F004-00

ICS C07F005-02; C08F002-46

CC 35-3 (Chemistry of Synthetic High Polymers)

Section cross-reference(s): 37

TI Sulfonium complex polymerization initiators, initiator compositions and polymerizable compositions containing the same, and their cured products

ST sulfonium complex polymn initiator; hydroxyethyl sulfonium cation
nonnucleophilic anion initiator; acid curable compd sulfonium
complex initiator; epoxy acid curable sulfonium complex initiator;
pentaerythritol triacrylate radical polymn initiator sulfonium; benzyl
hydroxyethyl sulfonium tetrafluoroborate prepn initiator

IT Photosensitizers (pharmaceutical)

(compsn. containing; sulfonium complex polymerization initiators, its
compsn., and
curable comps. thereof)

IT Polymerization catalysts

(radical; sulfonium complex polymerization initiators, its comps., and
curable comps. thereof)

IT Polymerization catalysts

(sulfonium complex polymerization initiators, its comps., and curable
compsn.
thereof)

IT Sulfonium compounds
 RL: CAT (Catalyst use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)
 (sulfonium complex polymerization initiators, its compns., and curable compns. thereof)

IT Aminoplasts
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (sulfonium complex polymerization initiators, its compns., and curable compns. thereof)

IT 82752-41-8P, 2-Methyl-1,4,6-trioxaspiro(4,4)nonane homopolymer
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (sulfonium complex polymerization initiators, its compns., and curable compns. thereof)

IT 681-84-5, Tetramethoxysilane 2530-87-2, (γ -Chloropropyl)trimethoxysilane
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (curing of, with acids; sulfonium complex polymerization initiators, its compns., and curable compns. thereof)

IT 94523-09-8P 201294-81-7P 201294-82-8P 201294-83-9P
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
 (initiator intermediate; sulfonium complex polymerization initiators, its compns., and curable compns. thereof)

IT 70-11-1, Phenacyl bromide 100-39-0, Benzyl bromide 106-95-6, Allyl bromide, reactions 111-48-8, 2,2'-Thiodiethanol 2923-28-6, Silver trifluoromethylsulfonate 14104-20-2, Silver tetrafluoroborate 16836-95-6, Silver p-toluenesulfonate 16893-92-8, Potassium hexafluoroantimonate 17029-22-0, Potassium hexafluoroarsenate 17084-13-8, Potassium hexafluorophosphate 17201-43-3, p-Cyanobenzyl bromide 47855-94-7, Tetrakis(pentafluorophenyl) borate 65859-86-1, Lithium triphenylbutylborate
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (initiator starting material; sulfonium complex polymerization initiators, its compns., and curable compns. thereof)

IT 65-61-2, Acridine Orange 120-12-7, Anthracene, uses 448-61-3, 2,4,6-Triphenylpyrylium tetrafluoroborate 492-22-8, Thioxanthone 781-43-1, 9,10-Dimethylantracene 917-23-7, Tetraphenylporphyrin 1499-10-1, 9,10-Diphenylantracene 1564-64-3, 9-Bromoanthracene 1582-78-1 2390-54-7, Setoflavine T 6285-94-5 6359-38-2, Benzoflavin 10075-85-1, 9,10-Bis(phenylethynyl)anthracene 11121-48-5, Rose Bengal 17372-87-1, Eosin Y 25470-94-4 38215-36-0, 3-(2-Benzothiazolyl)-7-(diethylamino)coumarin 63226-13-1, 3,3'-Carbonylbis [7-(diethylamino)coumarin] 80034-24-8, 1,8-Dimethoxy-9,10-bis(phenylethynyl) anthracene 200573-28-0
 RL: MOA (Modifier or additive use); USES (Uses)
 (sensitizer; sulfonium complex polymerization initiators, its compns., and curable compns. thereof)

IT 163958-27-8 201294-98-6 201295-00-3 201295-02-5 201295-03-6
 201295-04-7 201295-05-8 201295-06-9 201295-07-0 201295-08-1
 201295-09-2 201295-10-5 201295-11-6 201295-12-7 201295-13-8
 201295-15-0 201295-18-3 201295-20-7 201295-22-9 201295-25-2
 201295-27-4 201295-29-6 201295-30-9 201295-31-0 201295-32-1
 201295-34-3 201295-35-4 201295-37-6 201295-41-2 201295-44-5
 201295-47-8 201295-50-3 201295-53-6 201295-55-8 201295-56-9
 201295-58-1 201295-60-5 201295-61-6 201295-62-7 201295-64-9

201295-65-0	201295-66-1	201295-67-2	201295-68-3	201295-71-8
201295-73-0	201295-75-2	201295-77-4	201295-79-6	201295-81-0
201295-83-2	201295-85-4	201295-87-6	201295-89-8	201295-91-2
201295-94-5	201747-62-8	201747-63-9	201747-64-0	201747-65-1

RL: CAT (Catalyst use); USES (Uses)

(sulfonium complex polymerization initiators, its compns., and curable compns. thereof)

IT	201294-84-0P	201294-86-2P	201294-88-4P	201294-90-8P	201294-91-9P
	201294-92-0P	201294-93-1P	201294-94-2P	201294-95-3P	201294-96-4P
	201747-61-7P				

RL: CAT (Catalyst use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)

(sulfonium complex polymerization initiators, its compns., and curable compns. thereof)

IT 2694-54-4P 9003-08-1P, Cymel 300 9003-44-5P, Isobutyl vinyl ether homopolymer 9003-53-6P, Styrene homopolymer 9003-77-4P, 2-Ethylhexyl acrylate homopolymer 24979-97-3P 25053-15-0P, Diallyl phthalate homopolymer 25067-05-4P, Glycidyl methacrylate homopolymer 25067-59-8P, N-Vinylcarbazole homopolymer 25085-98-7P 25101-18-2P, Diethylene glycol dimethacrylate homopolymer 25190-06-1P 25719-51-1P, 2-Ethylhexyl methacrylate homopolymer 26022-14-0P, Poly(2-hydroxyethyl acrylate) 26426-04-0P, Trimethylolpropane trimethacrylate homopolymer 27775-58-2P, Pentaerythritol triacrylate homopolymer 27790-26-7P, Ethylene glycol divinyl ether homopolymer 27813-91-8P, 1,6-Hexanediol dimethacrylate homopolymer 28158-16-9P, Ethylene glycol diacrylate homopolymer 28728-97-4P, γ -Butyrolactone homopolymer, sru 29611-97-0P, 1,4-Butanediol diglycidyl ether homopolymer 31213-03-3P, γ -Butyrolactone homopolymer 36446-02-3P, Trimethylolpropane triacrylate homopolymer 42954-97-2P, 1,5,7,11-Tetraoxaspiro(5,5)undecane homopolymer 42993-70-4P, 1,4,6-Trioxaspiro(4,4)nonane homopolymer 57592-66-2P, Pentaerythritol tetraacrylate homopolymer 57592-67-3P, 1,6-Hexanediol diacrylate homopolymer 67653-78-5P, Dipentaerythritol hexaacrylate homopolymer 70068-81-4P, Diallyl phthalate-trimethylolpropane triethioglycolate copolymer 80057-28-9P 94457-89-3P, Polypropylene glycol diacrylate homopolymer 108065-49-2P 140197-47-3P, Limonene monoepoxide homopolymer 194293-77-1P, 1,4,6-Trioxaspiro[4.5]decane homopolymer 194373-11-0P, Phenylloxetane homopolymer 201296-00-6P

RL: IMF (Industrial manufacture); PREP (Preparation)

(sulfonium complex polymerization initiators, its compns., and curable compns. thereof)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L17 2 ANSWERS CAPLUS COPYRIGHT 2008 ACS ON STN

IC ICM G03C001-015

ICS G03C001-035; G03C001-06; G03C001-08; G03C001-09; G03C001-34

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

TI Manufacture of silver halide photographic emulsion containing selenium-doped grains with high thermal stability

ST selenium compd dopant photoq emulsion; selenocyanide dopant silver halide emulsion; thiazolium benzo additive photoq material

IT Photographic emulsions

Photographic sensitizers

- (manufacture of silver halide photog. emulsion containing selenium-doped grains with high thermal stability)
- IT 3425-46-5, Potassium selenocyanate
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(dopant; manufacture of silver halide photog. emulsion containing selenium-doped grains with high thermal stability)
- IT 333-20-0, Potassium thiocyanate 20792-41-0, Tripotassium hexacyanoridate
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(manufacture of silver halide photog. emulsion containing selenium-doped grains with high thermal stability)
- IT 2786-31-4 16407-55-9 95537-84-1 178156-23-5 178156-25-7
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(nucleophilic agent; manufacture of silver halide photog. emulsion containing selenium-doped grains with high thermal stability)

ALL ANSWERS HAVE BEEN SCANNED

=> 1d 114 scan

1D IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.

For a list of commands available to you in the current file, enter

"HELP COMMANDS" at an arrow prompt (=>).

=> d 114 scan

L14 128 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN

IC ICM C07D311-92

ICS C07D405-06; C07C235-66; G02B005-23; C09K009-02

CC 41-11 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers)

Section cross-reference(s): 27, 28, 38

TI Photochromic 3,3-bis(aryl)-5-((N-(un)substituted)amido)naphthopyrans, their preparation, compositions and polymer matrixes containing them and their use

ST naphthopyrancarboxamide photochromic dye prodn lens

IT Eyeglass lenses

(containing naphthopyrancarboxamide photochromic dyes)

IT Epoxy resins, preparation

Polyamides, preparation

Polycarbonates, preparation

Polyesters, preparation

Polyethers, preparation

Polysiloxanes, preparation

Polyureas

Polyurethanes, preparation

Polyvinyl butyrals

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(containing naphthopyrancarboxamide photochromic dyes for ophthalmics)

IT Photochromic materials

Photochromic materials

(dyes; production of naphthopyrancarboxamide photochromic dyes for ophthalmics)

IT Dyes
Dyes
(photochromic; production of naphthopyrancarboxamide photochromic dyes for ophthalmics)

IT Vinyl compounds, preparation
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(polymers; containing naphthopyrancarboxamide photochromic dyes for ophthalmics)

IT Polyurethanes, preparation
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(thio-; containing naphthopyrancarboxamide photochromic dyes for ophthalmics)

IT 9004-39-1P, Cellulose acetate propionate 103183-03-5P, Diacryl 121-polyethylene glycol dimethacrylate copolymer
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(containing naphthopyrancarboxamide photochromic dyes for ophthalmics)

IT 9003-53-6, Polystyrene 9004-35-7, Cellulose acetate 9012-09-3, Cellulose triacetate 25014-41-9, Polyacrylonitrile 75212-93-0, Diacryl 121 homopolymer
RL: TEM (Technical or engineered material use); USES (Uses)
(containing naphthopyrancarboxamide photochromic dyes for ophthalmics)

IT 297168-03-7P 297168-04-8P 297168-05-9P 297168-06-0P 297168-07-1P 297168-08-2P 297168-09-3P 297168-11-7P 297168-12-8P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(dye; production of naphthopyrancarboxamide photochromic dyes for ophthalmics)

IT 3555-85-9P, 2,2',4,4'-Tetramethoxybenzophenone 3651-62-5P 3692-67-9P 3923-52-2P, 1,1-Diphenyl-2-propyn-1-ol 4038-15-7P, 2,4,4'-Trimethoxybenzophenone 4038-17-9P 159595-96-7P 297168-15-1P 297168-17-3P 297168-18-4P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; production of naphthopyrancarboxamide photochromic dyes for ophthalmics)

IT 74-86-2, Acetylene, reactions 77-78-1, Dimethyl sulfate 91-52-1, 2,4-Dimethoxybenzoic acid 92-70-6, 2-Hydroxy-3-naphthoic acid 93-07-2, 3,4-Dimethoxybenzoic acid 100-66-3, reactions 106-49-0, p-Methylaniline, reactions 110-91-8, Morpholine, reactions 119-61-9, Benzophenone, reactions 131-54-4, 2,2'-Dihydroxy-4,4'-dimethoxybenzophenone 3692-69-1 4096-20-2, N-Phenylpiperidine 6867-30-7, Lithium acetylde ethylenediamine complex 39828-35-8, 2,4-Dimethoxybenzoyl chloride 297168-13-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(starting material; production of naphthopyrancarboxamide photochromic dyes for ophthalmics)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):end

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(FILE 'HOME' ENTERED AT 09:28:28 ON 30 APR 2008)

FILE 'REGISTRY' ENTERED AT 09:28:44 ON 30 APR 2008
L1      STRUCTURE UPLOADED
L2      1 S L1 SSS SAM
L3      44 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 09:29:18 ON 30 APR 2008
L4      20 S L3
L5      13 S L4 AND PY<=2002
L6      0 S L5 AND (PHOTO? OR CAGED OR PROTECT?)
L7      3 S L5 AND NUCLEO?

FILE 'MARPAT' ENTERED AT 09:30:36 ON 30 APR 2008
L8      50 S L3 SSS SAM
L9      2134 S L3 SSS FULL

FILE 'CAPLUS' ENTERED AT 09:31:54 ON 30 APR 2008
L10     2134 S L9
L11     1571 S L10 AND AD<=20030221
L12     215 S L11 AND (PHOTO? OR CAGED OR PROTECT?)
L13     4 S L12 AND NUCLEO?
L14     128 S L11 AND PHOTO?
L15     1 S L14 AND NUCLEO?
L16     3 S L5 AND ?NUCLEO?
L17     2 S L12 AND (PHOTO? OR CAGED) AND ?NUCLEO?

=> s l12 and (photo? OR caged) and ?ribo?
      1572300 PHOTO?
      4566 CAGED
      41352 ?RNASE
      647314 ?RIBO?
      41352 ?RNASE
      40311 RNASE
      2997 RNASES
      40961 RNASE
      (RNASE OR RNASES)
      665307 ?RIBO?
      (?RIBO? OR ?RNASE OR RNASE)
L18     0 L12 AND (PHOTO? OR CAGED) AND ?RIBO?

=> l14 and protect?
L14 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s l14 and protect?
      679039 PROTECT?
L19     3 L14 AND PROTECT?

=> d l19 scan

L19     3 ANSWERS  CAPLUS  COPYRIGHT 2008 ACS on STN
IC      ICM  C07C069-96
        ICS  G03F007-004
CC      74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other
        Reprographic Processes)

```

Section cross-reference(s): 23

- TI Compounds containing acid-cleavable protective groups and positive-working radiation-sensitive compositions prepared using these compounds
- ST photosensitive compn photoresist elec circuit; butoxycarbonyloxyacetal photosensitive compn
- IT Photoimaging compositions and processes (butoxycarbonyloxyacetals for)
- IT Electric circuits (manufacture of, butoxycarbonyloxyacetals for)
- IT Resists (photo-, butoxycarbonyloxyacetals for)
- IT 149925-10-0P 149925-13-3P 149925-15-5P 149997-42-2P 156281-11-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reaction of, photosensitive composition component from)
- IT 149997-41-1P
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and use of, a photosensitive composition component)
- IT 149997-39-7P 149997-40-0P 149997-43-3P 156281-12-8P
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and use of, as photosensitive composition component)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

- L19 3 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN
- IC ICM G03C001-85
ICS G03C001-89; G03C001-815
- INCL 430512000
- CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
- TI Antistatic layer for photographic element
- ST antistatic coating vanadium oxide photog film; UV absorber antistatic coating photog film
- IT Photographic films (antistatic layers containing vanadium pentoxide and aromatic ketone UV absorbers for)
- IT 131-55-5 70356-09-1
RL: TEM (Technical or engineered material use); USES (Uses) (UV absorber for antistatic layers for photog. films)
- IT 1314-62-1, Vanadium pentoxide, uses
RL: TEM (Technical or engineered material use); USES (Uses) (photog. films with antistatic layers containing aromatic ketone UV absorbers and)
- IT 9035-69-2, Cellulose diacetate
RL: TEM (Technical or engineered material use); USES (Uses) (photog. films with antistatic layers containing vanadium pentoxide, aromatic ketone UV absorbers and)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

- L19 3 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN
- IC ICM C08G073-10
ICS C07C101-66
- CC 42-10 (Coatings, Inks, and Related Products)
- TI Polyimides and their use
- ST polyimide relief printing; aminotetramethylbenzoyl phthalic acid polymer;

resist photo polyimide

IT Photogravure
(aromatic polyimide-polyketone resists for)

IT Coating materials
(aromatic polyimide-polyketones, manufacture of)

IT Ketones, preparation
RL: PREP (Preparation)
(polyimide-poly-, manufacture of, from (aminotetramethylbenzoyl)phthalic acid or anhydride, as resists structure)

IT Polyimides, preparation
RL: PREP (Preparation)
(polyketone-, manufacture of, from (aminotetramethylbenzoyl)phthalic acid or anhydride, as resists structure)

IT 95-93-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(acetylation of, with butyl(chloroformyl)phthalimide)

IT 552-30-7
RL: USES (Uses)
(condensation of, with butylamine)

IT 109-73-9, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(condensation of, with trimellitic anhydride)

IT 104559-56-0P 104559-57-1P 104559-58-2P 104570-36-7P
RL: PREP (Preparation)
(manufacture of, as coating and resist)

IT 101749-72-8P
RL: PREP (Preparation)
(preparation and condensation with durene)

IT 104462-39-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclodehydration of)

IT 104462-41-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrogenation of)

IT 104462-42-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrolysis of)

IT 104462-40-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and nitridation of)

IT 104462-43-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

ALL ANSWERS HAVE BEEN SCANNED

=> logoff hold

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

49.08

304.63

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-3.20

-3.20

SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 09:40:29 ON 30 APR 2008

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:esptajsl1623

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 10:57:59 ON 30 APR 2008
FILE 'CAPLUS' ENTERED AT 10:57:59 ON 30 APR 2008
COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	49.08	304.63
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.20	-3.20

=> d his

(FILE 'HOME' ENTERED AT 09:28:28 ON 30 APR 2008)

FILE 'REGISTRY' ENTERED AT 09:28:44 ON 30 APR 2008

L1 STRUCTURE UPLOADED
L2 1 S L1 SSS SAM
L3 44 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 09:29:18 ON 30 APR 2008

L4 20 S L3
L5 13 S L4 AND PY<=2002
L6 0 S L5 AND (PHOTO? OR CAGED OR PROTECT?)
L7 3 S L5 AND NUCLEO?

FILE 'MARPAT' ENTERED AT 09:30:36 ON 30 APR 2008

L8 50 S L3 SSS SAM
L9 2134 S L3 SSS FULL

FILE 'CAPLUS' ENTERED AT 09:31:54 ON 30 APR 2008

L10 2134 S L9
L11 1571 S L10 AND AD<=20030221
L12 215 S L11 AND (PHOTO? OR CAGED OR PROTECT?)
L13 4 S L12 AND NUCLEO?
L14 128 S L11 AND PHOTO?
L15 1 S L14 AND NUCLEO?
L16 3 S L5 AND ?NUCLEO?
L17 2 S L12 AND (PHOTO? OR CAGED) AND ?NUCLEO?
L18 0 S L12 AND (PHOTO? OR CAGED) AND ?RIBO?
L19 3 S L14 AND PROTECT?

=> s l12 and aroyl and nitro
5112 AROYL
2 AROYLS
5112 AROYL
(AROYL OR AROYLS)
168320 NITRO
88 NITROS
168378 NITRO
(NITRO OR NITROS)
L20 3 L12 AND AROYL AND NITRO

=> d l20

L20 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1999:404947 CAPLUS <<LOGINID::20080430>>
DN 131:74982
TI Naphthopyran photochromic dyes sensitive to pH
IN Clarke, David A.; Heron, Bernard Mark; Gabbutt, Christopher David;
Hepworth, John David; Partington, Steven Michael; Corns, Stephen Nigel
PA James Robinson Limited, UK
SO PCT Int. Appl., 37 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9931081	A1	19990624	WO 1998-GB3681	19981210 <--
	W: GB, JP, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,				
	PT, SE				
PRAI	GB 1997-26361	A	19971212		
OS	MARPAT 131:74982				
RE.CNT	14	THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD			
		ALL CITATIONS AVAILABLE IN THE RE FORMAT			

=> d l20 scan

L20 3 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN
IC ICM C07D311-92
ICS C07D311-78; C07D409-04; G02B005-23
CC 41-5 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers)
TI Intensely coloring photochromic 2H-naphtho[1,2-b]pyrans and heterocyclic pyrans and their application
ST photochromic naphthopyran dye
IT Photochromic materials
Photochromic materials
(dyes; preparation of intensely coloring photochromic naphthopyran dyes)
IT Dyes
Dyes
(photochromic; preparation of intensely coloring photochromic naphthopyran dyes)
IT Eyeglass lenses
Optical filters

Windows

(preparation of intensely coloring photochromic naphthopyran dyes for)

- IT 214038-22-9P, Methyl 9-methoxy-2-(4-morpholinophenyl)-2-(2-thienyl)-2H-naphtho[1,2-b]pyran-5-carboxylate 214038-23-0P, Methyl 9-methoxy-2-(4-morpholinophenyl)-2-phenyl-2H-naphtho[1,2-b]pyran-5-carboxylate 214038-24-1P, Methyl 9-methoxy-2,2-bis(4-pyrrolidinophenyl)-2H-naphtho[1,2-b]pyran-5-carboxylate 214038-25-2P, Methyl 9-methoxy-2,2-bis(4-piperidinophenyl)-2H-naphtho[1,2-b]pyran-5-carboxylate 214038-26-3P, Methyl 9-methoxy-2-(4-methoxyphenyl)-2-(4-morpholinophenyl)-2H-naphtho[1,2-b]pyran-5-carboxylate 214038-27-4P, Methyl 7,9-dichloro-2-(4-pyrrolidinophenyl)-2-phenyl-2H-naphtho[1,2-b]pyran-5-carboxylate 214038-28-5P, Methyl 7-fluoro-2-(4-piperidinophenyl)-2-phenyl-2H-naphtho[1,2-b]pyran-5-carboxylate
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (dye; preparation of intensely coloring photochromic naphthopyran dyes)
- IT 127266-02-8P, Methyl 4-hydroxy-6-methoxy-2-naphthoate 151502-73-7P, Ethyl 4-hydroxy-6-methoxy-2-naphthoate
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
 (intermediate; preparation of intensely coloring photochromic naphthopyran dyes)
- IT 123-11-5, p-Anisaldehyde, reactions 123-25-1, Diethyl succinate 127-09-3, Sodium acetate 214038-29-6, 1-(4-Morpholinophenyl)-1-(2-thienyl)-2-propyn-1-ol
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (starting material; preparation of intensely coloring photochromic naphthopyran dyes)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

- L20 3 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN
- IC ICM C07D311-92
 ICS C07D405-04; C09K009-02
- CC 41-11 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers)
 Section cross-reference(s): 27, 74
- TI Naphthopyran photochromic dyes sensitive to pH
- ST naphthopyran photochromic dye pH sensitive
- IT Photochromic materials
Photochromic materials
 (dyes; naphthopyran photochromic dyes sensitive to pH)
- IT Marking
 Printing (nonimpact)
 (naphthopyran photochromic dyes sensitive to pH for labeling, printing, and marking)
- IT Eyeglass lenses
 (naphthopyran photochromic dyes sensitive to pH for ophthalmic elements)
- IT Dyes
 Dyes
 (photochromic; naphthopyran photochromic dyes sensitive to pH)
- IT 28656-26-0P 159595-90-1P 159595-92-3P 159595-94-5P 200062-63-1P
 200888-30-8P 214115-70-5P 214746-72-2P 214746-73-3P 214746-75-5P
 214746-76-6P 215949-11-4P 228415-20-1P 228415-21-2P 228415-22-3P

228415-24-5P 228415-26-7P 228415-27-8P
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (naphthopyran photochromic dyes sensitive to pH)
 IT 92-44-4, 2,3-Dihydroxynaphthalene 135-19-3, 2-Naphthol, reactions
 3923-52-2 13632-62-7 101597-25-5 102164-16-9 159595-96-7
 159596-01-7 159596-03-9 159596-05-1, 4-Morpholino-2-naphthol
 194940-93-7 214115-76-1 214746-69-7 214746-70-0 214746-71-1
 228415-19-8 228415-23-4 228415-25-6
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (naphthopyran photochromic dyes sensitive to pH)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L20 3 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN
 IC ICM C07D311-00
 CC 41-5 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers)
 TI Neutral coloring photochromic 2H-naphtho[1,2-b]pyrans and heterocyclic pyrans and their use
 ST photochromic naphthopyran dye prepn
 IT Photochromic materials
Photochromic materials
 (dyes; preparation of photochromic naphthopyran dyes)
 IT Dyes
 Dyes
 (photochromic; preparation of photochromic naphthopyran dyes)
 IT Eyeglass lenses
 Optical filters
 Windows
 (preparation of photochromic naphthopyran dyes for)
 IT 214115-70-5P, Methyl 2,2-bis(4-methoxyphenyl)-9-morpholino-2H-naphtho[1,2-b]pyran-5-carboxylate 214115-71-6P, Methyl 2,2-bis(4-methoxyphenyl)-9-pyrrolidino-2H-naphtho[1,2-b]pyran-5-carboxylate 214115-72-7P
 214115-73-8P, Methyl 11,11-bis(4-methoxyphenyl)-2-methyl-11H-pyrano[2,3-b]carbazole-8-carboxylate 214115-74-9P
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (dye; preparation of photochromic naphthopyran dyes)
 IT 214115-75-0P, Ethyl 4-acetoxy-6-morpholino-2-naphthoate 214115-76-1P, Methyl 4-hydroxy-6-morpholino-2-naphthoate 214115-77-2P, Ethyl 1-acetoxy-9-methylcarbazole-3-carboxylate 214115-78-3P, Methyl 1-hydroxydibenzothiophene-3-carboxylate 216171-89-0P
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
 (intermediate; preparation of photochromic naphthopyran dyes)
 IT 123-25-1, Diethyl succinate 127-09-3, Sodium acetate 1204-86-0, 4-Morpholinobenzaldehyde 19012-03-4, 1-Methylindole-3-carboxaldehyde 69747-79-1, Ethyl 1-acetoxydibenzothiophene-3-carboxylate 101597-25-5, 1,1-Bis(4-methoxyphenyl)-2-propyn-1-ol
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (starting material; preparation of photochromic naphthopyran dyes)

ALL ANSWERS HAVE BEEN SCANNED

=> d his

(FILE 'HOME' ENTERED AT 09:28:28 ON 30 APR 2008)

FILE 'REGISTRY' ENTERED AT 09:28:44 ON 30 APR 2008

L1 STRUCTURE UPLOADED
L2 1 S L1 SSS SAM
L3 44 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 09:29:18 ON 30 APR 2008

L4 20 S L3
L5 13 S L4 AND PY<=2002
L6 0 S L5 AND (PHOTO? OR CAGED OR PROTECT?)
L7 3 S L5 AND NUCLEO?

FILE 'MARPAT' ENTERED AT 09:30:36 ON 30 APR 2008

L8 50 S L3 SSS SAM
L9 2134 S L3 SSS FULL

FILE 'CAPLUS' ENTERED AT 09:31:54 ON 30 APR 2008

L10 2134 S L9
L11 1571 S L10 AND AD<=20030221
L12 215 S L11 AND (PHOTO? OR CAGED OR PROTECT?)
L13 4 S L12 AND NUCLEO?
L14 128 S L11 AND PHOTO?
L15 1 S L14 AND NUCLEO?
L16 3 S L5 AND ?NUCLEO?
L17 2 S L12 AND (PHOTO? OR CAGED) AND ?NUCLEO?
L18 0 S L12 AND (PHOTO? OR CAGED) AND ?RIBO?
L19 3 S L14 AND PROTECT?
L20 3 S L12 AND AROYL AND NITRO

=> s l11 and (photol? or caged)

228975 PHOTOL?
4566 CAGED

L21 4 L11 AND (PHOTOL? OR CAGED)

=> d l21 scan

L21 4 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN

IC ICM G01N033-532

ICS G01N033-554; C07D307-82; C07D491-048

INCL 436079000

CC 9-5 (Biochemical Methods)

Section cross-reference(s): 27

TI Light-triggered indicators that memorize analyte concentrations

ST light triggered indicator memorize analyte concn; calcium ion memory
indicator

IT Chromophores

(carrying photolabile group and linked to analyte-binding
compound; light-triggered indicators that memorize analyte concns.)

IT Fluorometry

(cytofluorometry; light-triggered indicators that memorize analyte
concns.)

IT Cytometry

(fluorometric; light-triggered indicators that memorize analyte
concns.)

IT Antibodies

RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)

(labeled; light-triggered indicators that memorize analyte concns.)

IT Cell
Fluorescence microscopy
Fluorometry
Immunoassay
Indicators
Light
Test kits
(light-triggered indicators that memorize analyte concns.)

IT Antibodies
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(light-triggered indicators that memorize analyte concns.)

IT 321939-01-9P
RL: ARG (Analytical reagent use); PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses)
(as calcium ion indicator; light-triggered indicators that memorize analyte concns.)

IT 321939-03-1D, compds.
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(as memory indicator for hydrogen ion; light-triggered indicators that memorize analyte concns.)

IT 321939-04-2D, compds.
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(as memory indicator for magnesium ion; light-triggered indicators that memorize analyte concns.)

IT 321939-05-3D, compds.
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(as memory indicator for sodium ion; light-triggered indicators that memorize analyte concns.)

IT 3483-12-3, Dithiothreitol
RL: NUU (Other use, unclassified); USES (Uses)
(in amine product detection; light-triggered indicators that memorize analyte concns.)

IT 12408-02-5, Hydrogen ion, analysis 14127-61-8, Calcium ion, analysis 17341-25-2, Sodium ion, analysis 22537-22-0, Magnesium ion, analysis
RL: ANT (Analyte); ANST (Analytical study)
(light-triggered indicators that memorize analyte concns.)

IT 321939-06-4D, derivs.
RL: ARG (Analytical reagent use); PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); ANST (Analytical study); PROC (Process); RACT (Reactant or reagent); USES (Uses)
(light-triggered indicators that memorize analyte concns.)

IT 321939-02-0P
RL: PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)
(light-triggered indicators that memorize analyte concns.)

IT 70-11-1, Phenacyl bromide 99-92-3 407-25-0, Trifluoroacetic anhydride 157306-63-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(light-triggered indicators that memorize analyte concns.)

IT 24568-13-6P 321938-99-2P 321939-00-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(light-triggered indicators that memorize analyte concns.)

IT 156897-49-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(light-triggered indicators that memorize analyte concns.)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L21 4 ANSWERS CAPLUS COPYRIGHT 2008 ACS ON STN
IC ICM C08G059-20
ICS C08F002-44; C08F002-50; C08F291-00; G02B001-04; G02B005-20;
G02B005-22
CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other
Reprographic Processes)
Section cross-reference(s): 38, 73
TI Photocurable composition for manufacture of photocured film and color
filter
ST photocurable polymer photolithog film color filter display;
photopolymer polyfunctional alicyclic epoxy heat polymn crosslinker;
benzophenone deriv photopolymn initiator photopolymer film
IT Epoxy resins, uses
RL: MOA (Modifier or additive use); TEM (Technical or engineered material
use); USES (Uses)
(alicyclic, crosslinker; low-temperature photocurable composition containing
heat-polymerization crosslinker for manufacture of photocured film and color
filter)
IT Liquid crystal displays
(color; low-temperature photocurable composition containing
heat-polymerization crosslinker
for manufacture of photocured film and color filter)
IT Heat treatment
Photolithography
(film or filter prepared by; low-temperature photocurable composition
containing
heat-polymerization crosslinker for manufacture of photocured film and color
filter)
IT Optical filters
Photoimaging materials
Plastic films
(low-temperature photocurable composition containing heat-polymerization
crosslinker for
manufacture of photocured film and color filter)
IT Polymerization catalysts
(photopolymn.; low-temperature photocurable composition containing
heat-polymerization
crosslinker for manufacture of photocured film and color filter)
IT Crosslinking
(thermal, film or filter prepared by; low-temperature photocurable
composition
containing heat-polymerization crosslinker for manufacture of photocured
film and color
filter)
IT Crosslinking agents
(thermal; low-temperature photocurable composition containing
heat-polymerization crosslinker
for manufacture of photocured film and color filter)
IT 65697-21-4, Benzyl methacrylate-methacrylic acid copolymer
RL: TEM (Technical or engineered material use); USES (Uses)
(alkali-soluble, photocurable composition containing; low-temperature
photocurable composition
containing heat-polymerization crosslinker for manufacture of photocured
film and color

filter)
 IT 244772-00-7, EHPE 3150
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 (crosslinker; low-temperature photocurable composition containing heat-polymerization crosslinker for manufacture of photocured film and color filter)
 IT 25085-98-7, Celloxide 2021P
 RL: RCT (Reactant); TEM (Technical or engineered material use); RACT (Reactant or reagent); USES (Uses)
 (crosslinker; low-temperature photocurable composition containing heat-polymerization crosslinker for manufacture of photocured film and color filter)
 IT 29570-58-9, Dipentaerythritol hexaacrylate
 RL: TEM (Technical or engineered material use); USES (Uses)
 (photocurable composition containing; low-temperature photocurable composition containing heat-polymerization crosslinker for manufacture of photocured film and color filter)
 IT 77473-08-6, 3,3',4,4'-Tetra(tert-butylperoxycarbonyl)benzophenone
 94852-43-4, 3,3',4,4'-Tetra(tert-amylperoxycarbonyl)benzophenone
 94852-44-5 94852-45-6, 3,3',4,4'-Tetra(tert-octylperoxycarbonyl)benzophenone 94852-46-7, 3,3',4,4'-Tetra(cumylperoxycarbonyl)benzophenone
 RL: CAT (Catalyst use); USES (Uses)
 (photopolymn. initiator; low-temperature photocurable composition containing heat-polymerization crosslinker for manufacture of photocured film and color filter)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L21 4 ANSWERS CAPLUS COPYRIGHT 2008 ACS ON STN
 IC ICM C07F007-18
 CC 74-1 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
 Section cross-reference(s): 29
 TI Silanes bearing amide groups and their thin films capable of converting surface properties by irradiation with low-energy light
 ST photochem amide bond cleavage silane film; hydrophilization UV irradiation amide silane film; anilino carbonyl ethoxysilane film hydrophilization UV irradiation
 IT Photolysis
 (photochem. bond cleavage, amide bond cleavage; manufacture of silanes bearing amide groups for thin films capable of converting surface properties by irradiation with low-energy light)
 IT Bond cleavage
 (photochem., amide bond cleavage; manufacture of silanes bearing amide groups for thin films capable of converting surface properties by irradiation with low-energy light)
 IT 740847-20-5P 740847-21-6P 740847-22-7P 740847-23-8P 740847-24-9P
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (manufacture of silanes bearing amide groups for thin films capable of converting surface properties by irradiation with low-energy light)
 IT 72816-81-0P, N-Decyl-2-nitroaniline 740847-17-0P 740847-18-1P
 740847-19-2P
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
 (manufacture of silanes bearing amide groups for thin films capable of

converting surface properties by irradiation with low-energy light)
 IT 88-74-4, 2-Nitroaniline 814-68-6, Acryloyl chloride 998-30-1,
 Triethoxysilane 2050-77-3, 1-Iododecane 39716-58-0, 4-Pentenoyl
 chloride 61761-29-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (manufacture of silanes bearing amide groups for thin films capable of
 converting surface properties by irradiation with low-energy light)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L21 4 ANSWERS CAPLUS COPYRIGHT 2008 ACS ON STN
 IC ICM C07D493-04
 ICS C07D311-86; C09B011-28
 ICA C09K005-00; C09B067-22; C09B067-52; C08G085-00; C08G065-38; C08G061-12
 ICI C07D493-04, C07D311-00
 CC 28-2 (Heterocyclic Compounds (More Than One Hetero Atom))
 Section cross-reference(s): 41, 51, 74
 TI Preparation of xanthone derivatives.
 ST xanthone prepn monomer; heat transfer fluid xanthone; pigment intermediate
 xanthone prepn; photoinitiator intermediate xanthone prepn
 IT Photolysis
 (photoinitiators, intermediates, xanthone derivs as)
 IT Monomers
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (xanthone derivs, preparation of)
 IT Heat transfer
 (agents, xanthone derivs.)
 IT Pigments
 (intermediates, xanthone derivs as)
 IT 13340-61-9, 4,6-Bis(2,4-dichlorobenzoyl)-1,3-dihydroxybenzene
 152383-56-7, 4,6-Bis(2-chlorobenzoyl)-1,3-dihydroxybenzene 152383-57-8
 152383-58-9
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (cyclization of, to xanthone deriv)
 IT 152383-50-1P 152383-51-2P 152383-52-3P 152383-53-4P 152383-54-5P
 152383-55-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

ALL ANSWERS HAVE BEEN SCANNED

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	61.65	317.20
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-3.20	-3.20

SESSION WILL BE HELD FOR 120 MINUTES
 STN INTERNATIONAL SESSION SUSPENDED AT 11:01:30 ON 30 APR 2008